# APPENDIX E

Laboratory Methods and Standard Operating Procedures

# Title: Determination of Selected Pesticides Collected on XAD-4 Resin by High Performance Liquid Chromatography Ion Trap Mass Spectrometry and Gas Chromatography Mass Spectrometry

## 1. Scope

This section method (SM) is for the analysis of the selected pesticides trapped in XAD-4 resin and extracted with ethyl acetate. These pesticides are azinphos-methyl, chlorothalonil, chlorpyrifos, cypermethrin, DEF, diazinon, dicofol, dimethoate, diuron, endosulfan, endosulfan sulfate, EPTC, malathion, metolachlor, molinate, DDVP, norflurazon, oryzalin, oxyfluorfen, permethrin, phosmet, propanil, propargite, simazine, thiobencarb, trifluralin, and the oxygen analogs of chlorpyrifos, diazinon, dimethoate and malathion. It is to be followed by all authorized section personnel. The reporting limits vary from 0.25 μg to 2.0 μg depending on the instrument sensitivity for individual compounds.

## 2. Principle:

Residues of the selected pesticides are extracted from XAD-4 resin using ethyl acetates. Nineteen compounds are determined by the injection of sample extract into an HPLC equipped with a C-18 column and a mass spectrometer (LC-MS). The remaining compounds, which cannot be confidently analyzed with LC-MS, are determined by the injection of sample extract into a GC equipped with a mass selective detector (GC-MSD). The confirmation of compound identity on LC-MS is achieved simultaneously with collision-induced dissociation to produce a product ion for each of the analytes. The confirmation of compound identity with GC-MSD is achieved by the ratio of selected ions.

## 3. Safety:

3.1 All general laboratory safety rules for sample preparation and analysis shall be followed.
3.2 All solvents should be handled with care in a ventilated area.

## 4. Interferences:

On LC-MS it appears that the extract enhances the response of phosmet and azinphos methyl most of the time. On GC-MS it appears that the extract deteriorates the analytical column quickly and reduces the response of some compounds. The response and peak shape of some compounds in matrix extracts versus in plain

solvent shows great differences. To be consistent we have prepared standards in matrix extract to be used in GC-MS and LC-MS analysis.

5. Apparatus and Equipment:

5.1 Rotary evaporator (Büchi/Brinkman or equivalent)
5.2 Nitrogen evaporator (Meyer N-EVAP Organomation Model # 112 or equivalent)
5.3 Vortex-vibrating mixer
5.4 Separatory funnel, 250 mL
5.5 Conical tube with glass stopper, 15-mL graduated
5.6 Boiling flask, 500-mL
5.7 Funnel, 15 cm diameter
5.8 Disposable Pasteur pipettes, and other laboratory ware as needed
5.9 Liquid chromatograph (Waters Model 2695 HPLC) equipped with a Thermo Finnigan Ion Trap Mass detector.
5.10 Gas chromatograph (Agilent Model 6890) equipped with a mass spectrometer (Agilent model 5972)

6. Reagents and Supplies: (All reagents shall meet the minimum requirement in HPLC, residue and pesticide analysis)

6.1 Acetic acid,
6.2 Ammonium formate, (Aldrich, reagent grade or equivalent)
6.3 Ethyl acetate, (Fisher, reagent grade or equivalent)
6.4 Formic acid, HPLC grade (Fisher #A35-500 or equivalent)
6.3 Methanol, (Burdick &Jackson, MS grade, or equivalent)
6.4 Nitrogen, refrigerated liquid or nitrogen generator with capacity of delivering 20 liters per minute
6.5 Standards: The individual 1.0 mg/mL stock standards of each compound were obtained from the CDFA/CAC Standard Repository.

| | |
|---|---|
| Azinphos-methyl | CAS Number 86-50-0 |
| Chlorothalonil | CAS Number 1897-45-6 |
| Chlorpyrifos | CAS Number 2921-88-2 |
| Cypermethrin | CAS Number 52315-07-8 |
| DEF | CAS Number 78-48-8 |
| Diazinon | CAS Number 333-41-5 |
| Dicofol | CAS Number 115-32-2 |
| Dimethoate | CAS Number 60-51-5 |
| Diuron | CAS Number 330-54-1 |
| Endosulfan $\alpha$ | CAS Number 959-98-8 |

| | |
|---|---|
| Endosulfan β | CAS Number 332-13-65-9 |
| Endosulfan sulfate | CAS Number 1031-07-08 |
| EPTC | CAS Number 759-94-4 |
| Malathion | CAS Number 121-75-5 |
| Metolachlor | CAS Number 51218-45-2 |
| Molinate | CAS Number 2212-67-1 |
| DDVP | CAS Number 62-73-7 |
| Norflurazon | CAS Number 27314-13-2 |
| Oryzalin | CAS Number 19044-88-3 |
| Oxyfluorfen | CAS Number 42874-03-3 |
| Permethrin | CAS Number 52645-53-1 |
| Phosmet | CAS Number 732-11-6 |
| Propanil | CAS Number 709-98-8 |
| Propargite | CAS Number2312-35-8 |
| Simazine | CAS Number 122-34-9 |
| Thiobencarb | CAS Number 28249-77-6 |
| Trifluralin | CAS Number 1582-09-8 |
| Chlorpyrifos OA | CAS Number 0000-00-00 |
| Diazinon OA | CAS Number 962-58-3 |
| Dimethoate OA | CAS Number 1113-02-6 |
| Malathion OA | CAS Number 0000-00-00 |

6.6 Water, MS grade, Burdick & Jackson or equivalent

6.7 Analytical column: Waters SymmetryShield $RP_{18}$ 5 μm, 3.9 x 150 mm column (part number, 186000108) or equivalent

6.8 Guard column: Waters Symmetryshield RP 18 5 μm, 3.9 x 20 mm cartridge (part number,

6.9 Guard column cartridge holder: Waters Sentry guard holder universal (P/N wat064610)

7. Standards Preparation:

7.1 Dilute the 1.0 mg/mL standards, obtained from the CDFA/CAC Standards Repository, with methanol. The concentration of each individual standard is 20 ng/μL or 10 ng/μL.

7.2 The CDFA/CAC Standards Repository prepares the combination standards. One contains 26 compounds without the oxygen analogies (A). The other contains the 4 oxygen analogies (B). Each component of the combinations is 100 μg/mL prepared in methanol.

7.3 A combined stock solution is prepared by mixing equal amount of (A) and (B). This combined stock solution is for preparing working standards and QC spiking.

7.4 Working standards are prepared in sample matrix solution. The dilution ratios are:

| Concentration (ng/μL) | Amount of stock solution (μL) | Amount of matrix extract (μL) | Final volume (mL) |
|---|---|---|---|
| 0.10 | 4 | 1996 | 2.0 |
| 0.50 | 20 | 1980 | 2.0 |
| 1.0 | 40 | 1960 | 2.0 |
| 2.0 | 80 | 1920 | 2.0 |
| 5.0 | 200 | 1800 | 2.0 |

Working standards should be kept no longer than a week.

8. Sample Preservation and Storage:

All samples and sample extracts shall be stored in the refrigerator (0-5 $^{o}$C).

9. Test Sample Preparation:

9.1 Sample Preparation

9.1.1 Remove samples from refrigerator and allow them to reach ambient temperature.

9.1.2 Clip the sample tube on a laboratory rack in a hood, remove the stopper from the ends, put a 250 mL round flask under it, and place the bottom of the sample tube just inside the flask.

9.1.3 Set a 250 mL separatory funnel as a solvent reservoir on a ring and place the tip of the funnel just inside of the sample tube.

9.1.4 Pour 100 mL ethyl acetate into the separatory funnel. Open the stopcock and adjust the flow to a rate that the top of the resin bed maintains about 0.5 inch of solvent.

9.1.5 Allow the entire 100mLs of solvent to run through the sample tube.

9.1.6 Evaporate the solvent to about 10 mL on a rotary vacuum evaporator at 45°C and 24 inches vacuum.

9.1.7 Quantitatively transfer the solution to a 15 mL conical centrifuge tube and evaporate on a N-evap at 40°C to about 1 mL.

9.1.8 Perform solvent exchange by adding 4 mL methanol and evaporate to about 1 mL.

9.1.9 Adjust final volume to 2.0 mL with methanol. Vortex for 20 seconds and transfer to three auto-sampler vials, two with insert for analysis and one without insert for storage for in case of re-analysis.

10 Instrument Calibration:

10.1 The calibration standard curves consist of six levels. The lowest level must be at or below the corresponding reporting limits. (The current working standard levels are 0.02, 0.1, 0.5, 1.0, 2.0, and 5.0 ng/µL as prepared in 7.3.

10.2 The calibration curves for the LC-MS and GC-MS are generally obtained using linear regression. Quadratic fit may be used if the response of certain compounds exhibited quadratic behavior.

11 Analysis:

11.1 Injection Scheme

Both LC-MS and GC-MS may need to be conditioned with a matrix standard or a sample extract 2 to 5 runs before running the following sequence: A set of calibration standards in matrix, a matrix blank, a matrix spike, a set of up to 10 test samples, then a set of standards in matrix, etc.

11.2 HPLC-MS Instrumentation

11.2.1 Waters model 2695 HPLC and auto-sampler with column heater and remote control through Thermo Finnigan Xcalibur system.

11.2.2 Column: Waters SymmetryShield $RP_{18,}$ 5 µm, 3.9 x 150 mm column (part no. 186000108)

11.2.3 Guard column cartridge Holder and cartridge: Waters Sentry guard holder universal (P/N wat064610); Waters SymmetryShield RP 18 5μm, 3.9 x 20mm.

11.2.4 Column Temperature: 40 °C

11.2.5 Mobile Phase: Gradient

Solvent C: 3762 mL water, 200 mL methanol, 38 mL 1 M ammonium formate and 4.0 mL formic acid

Solvent D: 3600 mL methanol, 360 mL water, 36 mL 1.0 M ammonium formate, 4 mL formic acid

Flow rate: 0.75 mL/min

Gradient:

| Time(min) | Flow rate (mL/min) | A | B | C | D |
|---|---|---|---|---|---|
| 0 | 0.75 | 0 | 0 | 85 | 15 |
| 3 | 0.75 | 0 | 0 | 85 | 15 |
| 4 | 0.75 | 0 | 0 | 50 | 50 |
| 10 | 0.75 | 0 | 0 | 50 | 50 |
| 21 | 0.75 | 0 | 0 | 25 | 75 |
| 22 | 0.75 | 0 | 0 | 5 | 95 |
| 27 | 0.75 | 0 | 0 | 5 | 95 |
| 30 | 0.75 | 0 | 0 | 85 | 15 |
| 34 | 0.75 | 0 | 0 | 85 | 15 |

11.2.6 Injection Volume: 10 μL

11.2.8 Liquid Chromatograph Mass spectrometer (LC-MS) and Operating Parameters

| | |
|---|---|
| Model: | Finnigan Model DECA ion trap MS |
| Ion Source Type: | Atmospheric pressure Ionization (APCI) |
| Source Polarity: | Positive |
| APCI Vaporizer Temp: | 500°C |
| Capillary Temperature: | 200°C |
| Sheath Gas | 44 |
| Auxiliary Gas: | 3 |
| Mode of Operation: | MS/MS |

Retention time, molecular mass, ion filter range and product ions are listed below:

| Compound Name | Retention Time (min) | Molecular Masses | Ion Filter Range | Product Ions |
|---|---|---|---|---|
| Dimethoate OA | 3.16 | 213 | 214±1.5 | 183 |
| Dimethoate | 7.40 | 229 | 230±1.5 | 199 |
| Malathion OA | 10.04 | 314 | 315±1.5 | 126.9, 173, 268.8 |
| Simazine | 11.55 | 201, 203 | 203±1.5 | 124,132, 174 |
| Diazinon OA | 15.06 | 288 | 289±1.5 | 153, 261, 289 |
| Norflurazon | 16.23 | 303, 305 | 305±2 | 284, 286, 302, 304, 316, 317 |
| Diuron | 17.06 | 232, 234 | 235±2.5 | 72 |
| Phosmet | 17.40 | 317 | 318±1 | 160, 285.7 |
| Azinphos-methyl | 17.18 | 317 | 318±1 | 160, 171, 261 |
| Molinate | 18.05 | 187 | 188±1 | 126 |
| Malathion | 18.56 | 330 | 334±6 | 285 |
| Metolachlor | 19.59 | 283, 285 | 284±2 | 252 |
| Propanil | 19.63 | 217, 219 | 218±2.5 | 162 |
| Chlorpyrifos OA | 20.35 | 333, 335, 337 | 334±6 | 306, 308, 310 |
| EPTC | 20.55 | 189 | 190±1 | 128 |
| Oryzalin | 21.53 | 346 | 347±1 | 247, 288, 305 |
| Diazinon | 22.39 | 304 | 305±1.5 | 153, 169 |
| Thiobencarb | 24.43 | 257, 259 | 258±2.5 | 100, 125, 258 |
| DEF | 27.00 | 314 | 315±2.5 | 200.9, 257, 259 |

Note: The real retention times are expected within 30 seconds of that stated above when the column is new. The column conditions, temperature, mobile phase, etc. may slightly shift retention time.

11.2.9 Operating parameter detail and Tune method are listed in Appendix 1 and Appendix 2

11.3 GC-MSD Instrumentation:

11.3.1 Agilent GC-MSD model HP6890 with auto sampler. Operating software is Enviroquant ChemStation version G1701B.01.00
11.3.2 Column: HP-5MS 30m x 0.25mm x 0.25μm
11.3.3 Pre-column: not used
11.3.4 Temperature program

Injector Temperature: 250 °C
Oven Temperature:

| Oven Ramp | Program (°C/min) | Temperature (°C) | Hold (min) |
|---|---|---|---|
| initial | | 70 | 2 |
| Ramp 1 | 15 | 190 | 5 |
| Ramp 2 | 15 | 250 | 5 |
| Ramp 3 | 15 | 270 | 8 |

11.3.5 Retention times and ions selected for SIM acquisition:

| Compound name | Retention time | Selected ions | Starting time |
|---|---|---|---|
| DDVP | 7.25 | 109,145,185 | 5.0 |
| EPTC* | 8.35 | 128,189,86 | 8.10 |
| Molinate* | 10.01 | 126,187,98 | 9.80 |
| Trifluralin | 11.02 | 264, 306,264, 335 | 10.8 |
| Dimethoate* | 11.86 | 87, 125, 229 | 11.80 |
| Diazinon* | 12.58 | 179, 304, 137 | 12.50 |
| Chlorothalonil | 12.76 | 266, 229, 109 | 12.50 |
| Propanil* | 14.07 | 161,163,217 | 14.00 |
| Malathion* | 15.83 | 173, 125, 93 | 15.75 |
| Metolachlor* | 15.89 | 162, 238, 146 | 15.75 |
| Chlorpyrifos | 15.98 | 314, 197, 258 | 15.75 |
| Thiobencarb * | 16.04 | 100, 257, 125 | 15.75 |
| Dicofol p, p' | 16.46 | 139, 250, 111 | 16.28 |
| Endosulfan 1 | 18.02 | 195, 339, 241, 261 | 17.80 |
| DEF* | 18.61 | 202, 169, 147 | 18.50 |
| Oxyfluorfen | 18.68 | 252, 300, 361 | 18.50 |
| Endosulfan Sulfate | 20.04 | 272, 387, 229, 422 | 19.90 |
| Propargite | 20.5-20.6 | 135, 173, 350 | 20.45 |
| Phosmet | 21.31 | 160, 77, 93 | 20.60 |
| Azinphos Methyl | 22.56 | 160, 77, 132 | 20.60 |
| Permethrin | 24.8,25.09 | 183, 163, 127 | 24.80 |
| Cypermethrin | 26.41 | 163, 161,209 | 26.00 |

*Can be analyzed by LCMS confidently

12. Quality Control:

12.1 Each set of samples shall have a matrix blank and minimum of one matrix spike sample. Each set contains up to 12 samples.

12.2 The matrix blank shall be free of target compounds.

12.3 The recoveries of the matrix spike should be within the control limits.

12.4 The retention time shall be within ± 20 seconds of that of the standard.

12.5 To maintain the instrument performance, trim the front 10 inches off the GC column every 30 hours (about 50 injections). The response of the 0.02 ng/uL combination standards is a good measure of the instrument performance.

12.6 The sample extract shall be diluted if results fall outside the linear range of the standard curve.

12.7 Add additional levels if there is a need to extend the standard curve range.

12.8 Method Detection Limits (MDL)

The method detection limit refers to the lowest concentration of analyte that a method can detect reliably. To determine the MDL, 7 replicate XAD-4 sample tubes are spiked at 0.2 μg or 0.4 μg. The standard deviation from the spiked sample recoveries are used to calculate the MDL for each analyte using the follow equation:

$$MDL = tS$$

Where t is the Student t test value for the 99% confidence level with n-1 degrees of freedom and S denotes the standard deviation obtained from n replicate analyses. For the n=7 replicate used to determine the MDL, t=3.143.

12.9 Reporting limit (RL):

The reporting limit (RL) refers to the level at which reliable quantitative results may be obtained. The MDL is used as a guide to determine the RL. In general, the RL is chosen in a range 1-5 times the MDL. The response reproducibility of each compound is also considered to determine the RL

MDL data and the RL are tabulated in Appendix 3 and 4.

12.10 Method Validation Recovery Data and Control Limits:

12.10.1 The method validation consisted of five sample sets. Each set included 4 levels of fortification (0.5, 1.0, 5.0 and 10.0 μg) and a method blank. All spikes, method blank and samples were processed through the entire analytical method.

12.10.2 Upper and Lower warning and control limits are set at ± 2 and ±3 standard deviations of the average % recovery, respectively.

12.10.3 Method validation results and control limits are tabulated in appendix 4.

13. Calculations:

13.1 The quantification is based on the sum of area counts of the product ion and the precursor of the compound analyzed. The calculation is based on external standard (ESTD).

13.2 The software LCQuan in the Xcalibur system and the software Enviroquant are used to establish the standard curve and to calculate the analytes in the samples. The correlation coefficient, slope, intercept of the linear regression line are calculated once the calibration standards are defined. The equation for calculating analytes is as follows:

$$y = mx + b$$

Where: y = peak response
m = slope
b = intercept
x = concentration of compound

When the unit and the dilution factor are entered correctly in the analysis sequence, the software will then correctly generate the results.

13.3 Results can be manually calculated by a single point standard. The unit is μg/sample. This calculation is to verify the results derived from the software

The general equation is as follows:

$$\mu g = \frac{(\text{sample peak area})\ (\text{std. conc. ng}/\mu L)\ (\text{std. vol. Injected}(\mu L))\ (\text{sample final vol., (mL)})}{(\text{std. peak area})\ (\text{sample vol. Injected } (\mu L))}$$

14. Reporting Procedure:

14.1 Perform Quantification with LCQuan:

14.1.1 Create a new Processing method
Open a raw file
Select calibration options
Identify components
Define calibration settings. Or

14.1.2 Open an existing quantification method and save to an appropriate sub-directory with a new name

14.1.3 Open the sequence and review the sequence. Or

14.1.4 Go to the appropriate sub-directory and select the raw files to be used as standards. Place the standard raw files to the appropriate calibration levels. Select the unknown raw files to be calculated.

14.1.5 Review the calibration

14.1.6 Review all calculated results

14.1.7 Create, review, and print peak integration report, calibration report, and summary report

14.2 Perform Quantification with EnviroQuant:

14.2.1 Load a standard data file
Integrate the data file
Edit compounds based on retention time and identity
Review the window range of each compound and adjust it as needed.
Reintegrate the data file based on the new method
Update levels
View the calibration curves
Save as a new method

14.2.2 Load a sample data file
Do quantification with this new method with new calibration curves
Review each compound and do integration correction
Save this reviewed file
Print this reviewed data file

14.3 Acceptance Criteria:

14.3.1 Peak retention time between standards, QC spikes and unknowns shall be within 20 seconds. If there is a known reason for retention time shifting, an explanation memo shall be included.

14.3.2 Peak response shall be within the calibration range

14.3.3 The $R^2$ of calibration curve or overlay calibration curves shall be 0.990 or better.

14.3.4 Recoveries of spike QC shall be within the established control range, otherwise a rerun of the entire set shall be performed. If problems remain, an explanation memo shall be included.

14.3.5 The ratio of product ion and precursor ion between standard and unknown shall be consistent and the variation of the ratio between standard and unknown shall be within ±20 %.

14.3.6 Manual single point calculation result is acceptable with explanation

14.4 Reporting:

14.4.1 Sample results are reported out according to the client's analytical laboratory specification sheet.
14.4.2 Fill out COC, QC sheet, and control chart.
14.4.3 Prepare data package. Peer review. Report.

15 Discussion

15.1 It was a challenging task to analyze chlorothalonil by GC. Since the beginning of this project, we were able to analyze it by GC for a period of 8 months. The

sensitivity was getting better gradually. Later, we injected air sample extracts of the quartz and glass fiber filters. Immediately after this event, the response of chlorothalonil was getting worse. Eventually we were unable to meet the method reporting limit. A lot of attempts failed to restore the response of chlorothalonil by GC-MS method. Finally, a LC-MS method on negative mode was developed. The chlorothalonil molecular mass is 264 (266, 268, etc). During the infusion of chlorothalonil into the LC-MS we observed the ions $245^-$, $247^-$, and $249^-$. It appears the chlorothalonil molecule fragmented to ions $245^-$, $247^-$, and $249^-$. Loss of 19 is likely due to a chlorine on the aromatic ring being replaced by a hydroxyl group. Since we have this method we successfully reanalyzed all those samples that did not meet the reporting limit.

15.2 The GC column maintenance: About every 80-100 injections we trim off 15 inches of column from the front end. To compensate the retention time change due to a shorter column we add 10-15 seconds to the initial temperature holding time. Then check the retention time for each compound and make necessary changes.

15.3 Excluding ammonium salt from the mobile phase greatly increase the response of propanil by LC-MS

16. References:

## APPENDIX I Operating parameters

Creator: PAUL LEE

MS Run Time (min): 35.00

Divert Valve: in use during run

| Divert Time (min) | Valve State |
|---|---|
| 0.00 | To Waste |
| 1.99 | To Source |
| 32.41 | To Waste |

Contact Closure: not used during run

MS Detector Settings:

Acquisition Start Delay (min): 2.00
Real-time modifications to method disabled

Segment 1 Information

Duration (min): 10.76
Number of Scan Events: 3
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(230.0)->o(60.0-250.0)
MS/MS: Amp. 22.0% Q 0.250 Time 30.000 IsoW 3.0

2: Pos ·(214.0)->o(55.0-250.0)
MS/MS: Amp. 25.0% Q 0.250 Time 30.000 IsoW 3.0

3: Pos ·(315.0)->o(85.0-350.0)
MS/MS: Amp. 23.0% Q 0.250 Time 30.000 IsoW 3.0

Segment 2 Information

Duration (min): 2.26
Number of Scan Events: 1
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(203.0)->o(55.0-250.0)
MS/MS: Amp. 36.0% Q 0.250 Time 30.000 IsoW 3.0

Segment 3 Information

Duration (min): 3.18
Number of Scan Events: 2
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(305.0)->o(80.0-350.0)
MS/MS: Amp. 36.0% Q 0.250 Time 30.000 IsoW 4.0

2: Pos ·(289.0)->o(75.0-350.0)
MS/MS: Amp. 30.0% Q 0.250 Time 30.000 IsoW 3.0

Segment 4 Information

Duration (min): 1.77
Number of Scan Events: 4
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(305.0)->o(80.0-350.0)
MS/MS: Amp. 36.0% Q 0.250 Time 30.000 IsoW 4.0

2: Pos ·(235.0)->o(60.0-300.0)
MS/MS: Amp. 35.0% Q 0.250 Time 30.000 IsoW 5.0

3: Pos ·(318.0)->o(85.0-350.0)
MS/MS: Amp. 20.0% Q 0.250 Time 30.000 IsoW 2.0

4: Pos ·(188.0)->o(50.0-250.0)
MS/MS: Amp. 27.0% Q 0.250 Time 30.000 IsoW 2.0

Segment 5 Information

Duration (min): 0.94
Number of Scan Events: 3
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(188.0)->o(50.0-250.0)
MS/MS: Amp. 27.0% Q 0.250 Time 30.000 IsoW 2.0

2: Pos ·(334.0)->o(90.0-400.0)
MS/MS: Amp. 25.0% Q 0.250 Time 30.000 IsoW 12.0

3: Pos ·(318.0)->o(85.0-350.0)

MS/MS: Amp. 20.0% Q 0.250 Time 30.000 IsoW 2.0

Segment 6 Information

Duration (min): 1.55
Number of Scan Events: 4
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(284.0)->o(75.0-350.0)
MS/MS: Amp. 36.0% Q 0.250 Time 30.000 IsoW 4.0

2: Pos ·(218.0)->o(60.0-250.0)
MS/MS: Amp. 35.0% Q 0.250 Time 30.000 IsoW 5.0

3: Pos ·(334.0)->o(90.0-400.0)
MS/MS: Amp. 25.0% Q 0.250 Time 30.000 IsoW 12.0

4: Pos ·(190.0)->o(50.0-250.0)
MS/MS: Amp. 27.0% Q 0.250 Time 30.000 IsoW 2.0

Segment 7 Information

Duration (min): 2.77
Number of Scan Events: 4
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(347.0)->o(95.0-400.0)
MS/MS: Amp. 30.0% Q 0.250 Time 30.000 IsoW 2.0

2: Pos ·(305.0)->o(80.0-350.0)
MS/MS: Amp. 30.0% Q 0.250 Time 30.000 IsoW 3.0

3: Pos ·(190.0)->o(50.0-250.0)
MS/MS: Amp. 27.0% Q 0.250 Time 30.000 IsoW 2.0

4: Pos ·(334.0)->o(90.0-400.0)
MS/MS: Amp. 25.0% Q 0.250 Time 30.000 IsoW 12.0

Segment 8 Information

Duration (min): 1.57
Number of Scan Events: 1
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(258.0)->o(70.0-300.0)
MS/MS: Amp. 28.0% Q 0.250 Time 30.000 IsoW 5.0

Segment 9 Information

Duration (min): 1.60
Number of Scan Events: 4
Tune Method: oryzalin

Scan Event Details:
1: Neg ·(332.0)->o(90.0-400.0)
MS/MS: Amp. 32.0% Q 0.250 Time 30.000 IsoW 4.0

2: Pos ·(350.0)->o(95.0-400.0)
MS/MS: Amp. 28.0% Q 0.250 Time 30.000 IsoW 5.0

3: Neg ·(360.0)->o(95.0-380.0)
MS/MS: Amp. 38.0% Q 0.250 Time 30.000 IsoW 4.0

4: Pos ·(335.0)->o(90.0-400.0)
MS/MS: Amp. 35.0% Q 0.250 Time 30.000 IsoW 3.0

Segment 10 Information

Duration (min): 3.79
Number of Scan Events: 2
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(315.0)->o(85.0-400.0)
MS/MS: Amp. 32.0% Q 0.250 Time 30.000 IsoW 3.0

2: Pos ·(350.0)->o(95.0-400.0)
MS/MS: Amp. 28.0% Q 0.250 Time 30.000 IsoW 5.0

Segment 11 Information

Duration (min): 4.81
Number of Scan Events: 1
Tune Method: oryzalin

Scan Event Details:
1: Pos ·(350.0)->o(95.0-400.0)
MS/MS: Amp. 28.0% Q 0.250 Time 30.000 IsoW 5.0

Custom Dependent Data Settings:
Not enabled

## APPENDIX 2 Tune Method

| | |
|---|---|
| Capillary Temp (C): | 200 |
| APCI Vaporizer Temp (C): | 500 |
| Ion Time (ms): | 5 |
| Sheath Gas Flow (): | 44 |
| Aux Gas Flow (): | 3 |
| Source Type: | APCI |
| Injection Waveforms: | Off |
| AGC: | On |
| | |
| POSITIVE POLARITY | |
| Source Voltage (kV): | 6 |
| Source Current (uA): | 5 |
| Capillary Voltage (V): | 3 |
| Tube Lens Offset (V): | 15 |
| Octapole RF Amplifier (Vp-p): | 290 |
| Octapole 1 Offset (V): | -7.75 |
| Octapole 2 Offset (V): | -10 |
| Entrance Lens (V): | -26 |
| InterOctapole Lens Voltage (V): | -50 |
| Trap DC Offset Voltage (V): | -10 |
| Zoom Micro Scans: | 5 |
| Zoom AGC Target: | 20000000 |
| Zoom Max Ion Time (ms): | 50 |
| Full Micro Scans: | 3 |
| Full AGC Target: | 50000000 |
| Full Max Ion Time (ms): | 300 |
| SIM Micro Scans: | 3 |
| SIM AGC Target: | 20000000 |
| SIM Max Ion Time (ms): | 100 |
| MSn Micro Scans: | 2 |
| MSn AGC Target: | 20000000 |
| MSn Max Ion Time (ms): | 1000 |
| | |
| NEGATIVE POLARITY | |
| Source Voltage (kV): | 5 |
| Source Current (uA): | 80 |
| Capillary Voltage (V): | -47 |
| Tube Lens Offset (V): | -35 |
| Octapole RF Amplifier (Vp-p): | 120 |

| | |
|---|---|
| Octapole 1 Offset (V): | 6.25 |
| Octapole 2 Offset (V): | 12 |
| InterOctapole Lens Voltage (V): | 68 |
| Entrance Lens (V): | 52 |
| Trap DC Offset Voltage (V): | 10 |
| Zoom Micro Scans: | 5 |
| Zoom AGC Target: | 20000000 |
| Zoom Max Ion Time (ms): | 0 |
| Full Micro Scans: | 3 |
| Full AGC Target: | 50000000 |
| Full Max Ion Time (ms): | 200 |
| SIM Micro Scans: | 5 |
| SIM AGC Target: | 20000000 |
| SIM Max Ion Time (ms): | 200 |
| MSn Micro Scans: | 2 |
| MSn AGC Target: | 20000000 |
| MSn Max Ion Time (ms): | 800 |

## Appendix 3

Method Detection Limit (MDL) data

| | | Replicates | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Spiked (ug) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Average | Stdev | MDL=STDEV* 3.143 | RL (suggest) |
| | | | | | | | | | | | | |
| DimethoateOA | 0.2 | 0.195 | 0.192 | 0.209 | 0.191 | 0.203 | 0.214 | 0.213 | 0.199 | 0.013 | 0.042 | 0.250 |
| Dimethoate | 0.2 | 0.160 | 0.173 | 0.208 | 0.192 | 0.200 | 0.175 | 0.189 | 0.186 | 0.016 | 0.050 | 0.250 |
| Malathion OA | 0.2 | 0.185 | 0.186 | 0.191 | 0.186 | 0.192 | 0.179 | 0.183 | 0.189 | 0.009 | 0.028 | 0.250 |
| Simazine | 0.2 | 0.181 | 0.177 | 0.179 | 0.190 | 0.182 | 0.183 | 0.199 | 0.186 | 0.008 | 0.026 | 0.250 |
| Diazinon OA | 0.2 | 0.213 | 0.190 | 0.219 | 0.227 | 0.229 | 0.233 | 0.225 | 0.218 | 0.014 | 0.045 | 0.250 |
| Norflurazon | 0.2 | 0.184 | 0.175 | 0.144 | 0.213 | 0.211 | 0.178 | 0.218 | 0.187 | 0.026 | 0.081 | 0.250 |
| Diuron | 0.2 | 0.175 | 0.203 | 0.132 | 0.205 | 0.178 | 0.137 | 0.223 | 0.184 | 0.035 | 0.111 | 0.250 |
| Phosmet | 0.4 | NO Data | | | | | | | | | | |
| Azinphos Methyl | 0.4 | 0.377 | 0.364 | 0.278 | 0.372 | 0.349 | 0.257 | 0.412 | 0.345 | 0.052 | 0.164 | 1.000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Molinate | 0.2 | 0.151 | 0.167 | 0.179 | 0.171 | 0.148 | 0.176 | 0.150 | 0.163 | 0.012 | 0.039 | 0.250 |
| Malathion | 0.2 | 0.152 | 0.141 | 0.131 | 0.118 | 0.130 | 0.157 | 0.155 | 0.141 | 0.015 | 0.047 | 0.250 |
| Metolachlor | 0.2 | 0.166 | 0.177 | 0.204 | 0.184 | 0.173 | 0.175 | 0.176 | 0.184 | 0.019 | 0.059 | 0.250 |
| Propanil | 0.2 | 0.178 | 0.182 | 0.158 | 0.209 | 0.189 | 0.186 | 0.199 | 0.184 | 0.016 | 0.050 | 0.250 |
| Chlorpyrifos OA | 0.2 | 0.199 | 0.225 | 0.198 | 0.174 | 0.171 | 0.182 | 0.171 | 0.189 | 0.020 | 0.063 | 0.250 |
| EPTC | 0.2 | 0.162 | 0.157 | 0.176 | 0.177 | 0.167 | 0.143 | 0.173 | 0.165 | 0.011 | 0.036 | 0.250 |
| Oryzalin | 0.2 | 0.216 | 0.229 | 0.228 | 0.232 | 0.227 | 0.220 | 0.220 | 0.227 | 0.010 | 0.030 | 0.250 |
| Diazinon | 0.2 | 0.185 | 0.176 | 0.196 | 0.192 | 0.191 | 0.189 | 0.185 | 0.190 | 0.008 | 0.025 | 0.250 |
| Thioben carb | 0.2 | 0.229 | 0.162 | 0.269 | 0.198 | 0.181 | 0.156 | 0.226 | 0.200 | 0.038 | 0.121 | 0.500 |
| DEF | 0.2 | 0.191 | 0.190 | 0.190 | 0.204 | 0.193 | 0.199 | 0.226 | 0.198 | 0.012 | 0.038 | 0.250 |

| | Spiked (ug) | MDL-1 | MDL-2 | MDL-3 | MDL-4 | MDL-5 | MDL-6 | MDL-7 | Average | STDEV | MDL =3.143 x stdev | RL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorvos | 0.2 | 0.19 | 0.2 | 0.18 | 0.2 | 0.23 | 0.21 | 0.16 | 0.196 | 0.022 | 0.070 | 1.0 |
| Trifluralin | 0.2 | 0.26 | 0.26 | 0.26 | 0.26 | 0.29 | 0.26 | 0.26 | 0.264 | 0.011 | 0.036 | 0.5 |
| Chlorothalonil | 0.4 | 0.544 | 0.624 | 0.504 | 0.63 | 0.674 | 0.4 | 0.514 | 0 556 | 0.094 | 0.295 | 2.0 |
| Chlorpyrfos | 0 2 | 0.136 | 0.201 | 0.175 | 0.193 | 0.252 | 0.201 | 0.194 | 0.193 | 0.035 | 0.109 | 1.0 |
| Dicifol | 0.2 | 0.192 | 0.214 | 0.205 | 0.205 | 0.239 | 0.208 | 0.2199 | 0 212 | 0.015 | 0.046 | 1.0 |
| Endosulfan | 0 2 | 0.172 | 0.209 | 0.199 | 0.187 | 0.241 | 0.204 | 0.185 | 0.200 | 0.022 | 0.070 | 1.0 |
| Oxyfluorfen | 0.4 | 0.354 | 0.408 | 0.357 | 0.394 | 0.477 | 0.367 | 0.424 | 0.397 | 0.044 | 0.138 | 1.0 |
| Endosulfan sulfate | 0.2 | 0.216 | 0.242 | 0.185 | 0.186 | 0.256 | 0.172 | 0.191 | 0.207 | 0.032 | 0.100 | 1.0 |
| Propargite | 0.4 | 0.36 | 0.41 | 0.35 | 0.36 | 0.4 | 0.34 | 0.36 | 0 369 | 0.026 | 0.082 | 1.0 |
| Permethrin | 0.4 | 0.402 | 0.472 | 0.431 | 0.463 | 0.555 | 0.434 | 0.489 | 0.464 | 0.050 | 0.156 | 1.0 |
| Cypermethrin | 0.4 | 0.45 | 0.49 | 0.5 | 0.51 | 0.53 | 0.44 | 0.49 | 0.487 | 0.032 | 0.101 | 1.0 |

## Appendix 4
## Method Validation Data

| | | Set 1 | | Set 2 | | Set 3 | | Set 4 | | Set 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Spike Level** | **Result** | **Recovery** | **Result** | **Recovery** | **Result** | **Recovery** | **Result** | **Recovery** | **Result** | **Recovery** |
| | (µg) | (µg) | (%) | (µg) | (%) | (µg) | **(%)** | (µg) | **(%)** | (µg) | (%) |
| DimethoateOA | 0.5 | 0.599 | 120 | 0.53 | 106 | 0.524 | 105 | 0.445 | 89 | 0.469 | 94 |
| | 1 | 1.11 | 111 | 1.13 | 113 | 0.993 | 99 | 0.921 | 92 | 0.924 | 92 |
| | 5 | 5.26 | 105 | 5.33 | 107 | 4.73 | 95 | 4.15 | 83 | 4.63 | 93 |
| | 10 | 10.33 | 103 | 10.78 | 108 | 9.62 | 96 | 9.75 | 97 | 9.47 | 95 |
| Dimethoate | 0.5 | 0.411 | 82 | 0.505 | 101 | 0.498 | 100 | 0.51 | 102 | 0.415 | 83 |
| | 1 | 0.914 | 91 | 0.864 | 86 | 0.959 | 96 | 1.15 | 115 | 0.792 | 79 |
| | 5 | 4.02 | 80 | 4.47 | 89 | 5.00 | 100 | 4.21 | 84 | 4.6 | 92 |
| | 10 | 8.71 | 87 | 9.81 | 98 | 9.03 | 90 | 10.7 | 107 | 8.7 | 87 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Malathion OA | 0.5 | 0.546 | 109 | 0.603 | 121 | 0.521 | 104 | 0.44 | 88 | 0.477 | 95 |
| | 1 | 1.14 | 114 | 1.03 | 103 | 1.06 | 106 | 0.947 | 95 | 1.03 | 103 |
| | 5 | 5.09 | 102 | 5.02 | 100 | 5.46 | 109 | 4.85 | 97 | 4.73 | 95 |
| | 10 | 10.57 | 106 | 10.23 | 102 | 10.0 | 100 | 9.39 | 94 | 10.6 | 106 |
| Simazine | 0.5 | 0.463 | 93 | 0.506 | 101 | 0.439 | 88 | 0.538 | 108 | 0.442 | 88 |
| | 1 | 1.06 | 106 | 0.963 | 96 | 0.815 | 82 | 1.09 | 109 | 0.917 | 92 |
| | 5 | 4.51 | 90 | 4.66 | 93 | 4.61 | 92 | 5.06 | 101 | 4.61 | 92 |
| | 10 | 9.49 | 95 | 9.88 | 99 | 8.66 | 87 | 11.1 | 111 | 9.01 | 90 |
| Diazinon OA | 0.5 | 0.516 | 103 | 0.651 | 130 | 0.509 | 102 | 0.28 | 94 | 0.494 | 99 |
| | 1 | 1.05 | 105 | 1.18 | 118 | 0.948 | 95 | 0.576 | 97 | 0.992 | 99 |
| | 5 | 5.03 | 101 | 5.75 | 115 | 4.96 | 99 | 2.73 | 92 | 4.01 | 80 |
| | 10 | 10.07 | 101 | 11.09 | 111 | 9.66 | 97 | 6.21 | 105 | 10.3 | 103 |
| Norflurazon | 0.5 | 0.45 | 90 | 0.563 | 113 | 0.349 | 70 | 0.503 | 101 | 0.554 | 111 |
| | 1 | 1.06 | 106 | 1.1 | 110 | 0.864 | 86 | 1.06 | 106 | 0.837 | 84 |
| | 5 | 4.85 | 97 | 5.3 | 106 | 4.25 | 85 | 5.12 | 102 | 4.1 | 82 |
| | 10 | 9.59 | 96 | 9.44 | 94 | 8.08 | 81 | 10.9 | 109 | 8.71 | 87 |
| Diuron | 0.5 | 0.493 | 99 | 0.424 | 85 | 0.438 | 88 | 0.499 | 100 | 0.61 | 122 |
| | 1 | 1.1 | 110 | 1.05 | 105 | 0.915 | 91 | 1.09 | 109 | 1.15 | 115 |
| | 5 | 5.87 | 117 | 4.8 | 96 | 5.06 | 101 | 4.56 | 91 | 4.07 | 81 |
| | 10 | 9.76 | 98 | 11.37 | 114 | 9.75 | 98 | 10.1 | 101 | 7.26 | 73 |
| Phosmet | 1.0/0.5 | 1.48 | 148 | 1.235 | 123 | 1.30 | 130 | 0.392 | 78.4 | 0.437 | 87 |
| | 2.0/1.0 | 3.64 | 182 | 2 | 100 | 2.73 | 136 | 0.884 | 88.4 | 1.02 | 102 |
| | 10/5.0 | 14.4 | 144 | 10.1 | 101 | 11.58 | 116 | 0.460 | 92 | 5.28 | 106 |
| | 20/10. | 33.13 | 166 | 15.88 | 79 | 20.6 | 103 | 1.09 | 109 | 11.8 | 118 |
| Azinphos Methyl | 1.0/0.5 | 0.553 | 55 | 0.691 | 69 | 0.713 | 71 | 0.476 | 95 | 0.297 | 59 |
| | 2.0/1.0 | 1.79 | 89 | 1.73 | 86 | 2.11 | 105 | 1.00 | 100 | 0.647 | 65 |
| | 10/5.0 | 8.08 | 81 | 8.15 | 81 | 9.63 | 96 | 4.85 | 97 | 3.55 | 71 |
| | 20.0/10.0 | 16.55 | 83 | 15.88 | 79 | 19.2 | 96 | 11.3 | 113 | 8.34 | 83 |
| Molinate | 0.5 | 0.304 | 61 | 0.328 | 66 | 0.390 | 78 | 0.448 | 90 | 0.389 | 78 |
| | 1 | 0.636 | 64 | 0.62 | 62 | 0.774 | 77 | 0.907 | 91 | 0.821 | 82 |
| | 5 | 2.98 | 60 | 3.35 | 67 | 5.01 | 100 | 4.54 | 91 | 4.28 | 86 |
| | 10 | 7.84 | 78 | 8.32 | 83 | 9.48 | 95 | 10.2 | 102 | 9.34 | 93 |
| Malathion | 0.5 | 0.369 | 74 | 0.496 | 99 | 0.342 | 68 | 0.577 | 115 | 0.335 | 67 |
| | 1 | 0.835 | 84 | 0.84 | 84 | 0.928 | 93 | 1.08 | 108 | 0.68 | 68 |
| | 5 | 4.01 | 80 | 4.02 | 80 | 5.29 | 106 | 6.15 | 123 | 4.19 | 84 |
| | 10 | 8.2 | 82 | 7.57 | 76 | 8.53 | 85 | 11.9 | 119 | 8.82 | 88 |
| Metolachlor | 0.5 | 0.391 | 78 | 0.451 | 90 | 0.354 | 71 | 0.556 | 111 | 0.449 | 90 |
| | 1 | 0.938 | 94 | 0.938 | 94 | 0.935 | 93 | 1.09 | 109 | 0.887 | 89 |
| | 5 | 4.02 | 80 | 3.96 | 79 | 4.97 | 99 | 5.77 | 115 | 5.13 | 103 |
| | 10 | 9.07 | 91 | 8.5 | 85 | 6.69 | 67 | 10.9 | 109 | 10.6 | 106 |
| Propanil | 0.5 | 0.407 | 81 | 0.504 | 101 | 0.488 | 98 | 0.484 | 97 | 0.53 | 106 |
| | 1 | 0.841 | 84 | 1.02 | 102 | 0.865 | 86 | 0.969 | 97 | 0.904 | 90 |
| | 5 | 3.5 | 70 | 4.44 | 89 | 4.76 | 95 | 4.75 | 95 | 4.87 | 97 |
| | 10 | 7.91 | 79 | 9.63 | 96 | 9.52 | 95 | 10.6 | 106 | 11 | 110 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorpyrifos OA | 0.5 | 0.546 | 109 | 0.577 | 115 | 0.474 | 95 | 0.723 | 145 | 0.46 | 92 |
| | 1 | 1.25 | 125 | 1.09 | 109 | 1.02 | 102 | 1.3 | 130 | 0.969 | 97 |
| | 5 | 4.17 | 83 | 4.56 | 91 | 4.90 | 98 | 4.94 | 99 | 5.24 | 105 |
| | 10 | 9.83 | 98 | 9.3 | 93 | 6.48 | 65 | 10.2 | 102 | 10.9 | 109 |
| EPTC | 0.5 | 0.27 | 54 | 0.343 | 69 | 0.415 | 83 | 0.446 | 89 | 0.394 | 79 |
| | 1 | 0.344 | 34 | 0.689 | 69 | 0.676 | 68 | 0.928 | 93 | 0.773 | 77 |
| | 5 | 2.2 | 44 | 3.04 | 61 | 4.08 | 82 | 4.68 | 94 | 4.08 | 82 |
| | 10 | 7.42 | 74 | 8.12 | 81 | 8.12 | 81 | 10.4 | 104 | 8.58 | 86 |
| Oryzalin | 0.5 | 0.544 | 109 | 0.519 | 104 | 0.439 | 88 | 0.605 | 121 | 0.554 | 111 |
| | 1 | 0.989 | 99 | 0.949 | 95 | 0.955 | 95 | 1.08 | 108 | 1.02 | 102 |
| | 5 | 4.49 | 90 | 3.76 | 75 | 4.80 | 96 | 5.73 | 115 | 5.26 | 105 |
| | 10 | 10.99 | 110 | 8.32 | 83 | 8.45 | 84 | 11.1 | 111 | 11.6 | 116 |
| Diazinon | 0.5 | 0.418 | 84 | 0.407 | 81 | 0.387 | 77 | 0.401 | 80 | 0.474 | 95 |
| | 1 | 0.884 | 88 | 0.772 | 77 | 0.938 | 94 | 0.899 | 90 | 0.959 | 96 |
| | 5 | 3.97 | 79 | 3.72 | 74 | 5.07 | 101 | 5.05 | 101 | 4.66 | 93 |
| | 10 | 8.47 | 85 | 8.13 | 81 | 8.82 | 88 | 11.4 | 114 | 9.86 | 99 |
| Thioben carb | 0.5 | 0.435 | 87 | 0.517 | 103 | 0.511 | 102 | 0.427 | 85 | 0.463 | 93 |
| | 1 | 0.947 | 95 | 0.815 | 81 | 0.879 | 88 | 0.926 | 93 | 0.943 | 94 |
| | 5 | 4.31 | 86 | 4.00 | 80 | 5.22 | 104 | 4.8 | 96 | 4.79 | 96 |
| | 10 | 8.41 | 84 | 8.83 | 88 | 10.1 | 101 | 9.69 | 97 | 9.87 | 99 |
| DEF | 0.5 | 0.434 | 87 | 0.463 | 93 | 0.496 | 99 | 0.488 | 98 | 0.478 | 96 |
| | 1 | 0.915 | 91 | 0.922 | 92 | 0.951 | 95 | 0.991 | 99 | 0.948 | 95 |
| | 5 | 4.01 | 80 | 4.38 | 88 | 5.06 | 101 | 4.98 | 100 | 4.8 | 96 |
| | 10 | 9.11 | 91 | 9.03 | 90 | 9.30 | 93 | 10.8 | 108 | 9.97 | 100 |

| | | SET 1 | | SET 2 | | SET 3 | | SET 4 | | SET 5 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte** | **Spike Level** | Result | Recovery | Result | Recovery | Result | Recovery | Result | Recovery | Result | Recovery |
| | **(ug)** | **(ug)** | **(%)** | **(ug)** | **(%)** | **(ug)** | **(%)** | (ug) | (%) | (ug) | (%) |
| 1) DICHLORVOS | 0.5 | 0.227 | 45 | 0.576 | 115 | 0.550 | 0.5 | 0.570 | 114 | 0.680 | 136 |
| | 1.0 | 0.499 | 50 | 1.04 | 104 | 0.960 | 96 | 1.09 | 109 | 1.01 | 101 |
| | 5 | 3.36 | 67 | 3.34 | 67 | 4.68 | 94 | 4.09 | 82 | 5.24 | 105 |
| | 10 | 6.58 | 66 | 9.70 | 97 | 12.6 | 126 | 10.8 | 108 | 9.48 | 95 |
| 2) TRIFLURALIN | 0.5 | 0.486 | 97 | 0.506 | 101 | 0.530 | 106 | 0.600 | 120 | 0.630 | 126 |
| | 1.0 | 0.955 | 96 | 1.05 | 105 | 0.840 | 84 | 1.08 | 108 | 0.970 | 97 |
| | 5.0 | 4.78 | 96 | 4.25 | 85 | 4.68 | 94 | 4.23 | 85 | 5.15 | 103 |
| | 10 | 9.86 | 99 | 9.42 | 94 | 11.8 | 118 | 12.4 | 124 | 11.0 | 110 |
| 3) CHLOROTHALONIL | 1.0/0.5 | 1.20 | 120 | 1.17 | 117 | 1.45 | 145 | 0.749 | 150 | 1.31 | 262 |
| | 2.0/1.0 | 1.91 | 95 | 2.14 | 107 | 2.08 | 104 | 1.03 | 103 | 1.49 | 149 |
| | 10/5.0 | 8.62 | 86 | 9.26 | 93 | 9.59 | 96 | 4.64 | 93 | 5.38 | 108 |
| | 20.0/10.0 | 23.6 | 118 | 9.55 | 48 | 23.4 | 117 | 15.8 | 158 | 12.2 | 122 |
| 4) CHLORPYRIF | 0.5 | 0.470 | 94 | 0.459 | 92 | 0.640 | 128 | 0.510 | 102 | 0.530 | 106 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OS | | | | | | | | | | | |
| | 1.0 | 0.877 | 88 | 1.05 | 105 | 0.920 | 92 | 1.19 | 119 | 0.900 | 90 |
| | 5 | 4.73 | 95 | 4.10 | 82 | 2.88 | 58 | 5.29 | 106 | 5.34 | 107 |
| | 10.0 | 7.80 | 78 | 9.36 | 94 | 10.4 | 104 | 12.4 | 124 | 9.92 | 99 |
| 5) DICOFOL p,p' | 0.5 | 0.498 | 100 | 0.484 | 97 | 0.500 | 100 | 0.380 | 76 | 0.430 | 86 |
| | 1.0 | 0.941 | 94 | 1.05 | 105 | 0.850 | 85 | 1.02 | 102 | 0.830 | 83 |
| | 5.0 | 5.09 | 102 | 4.20 | 84 | 4.29 | 86 | 4.78 | 96 | 5.23 | 105 |
| | 10 | 8.32 | 83 | 9.72 | 97 | 11.3 | 113 | 9.94 | 99 | 11.2 | 112 |
| 6) ENDOSULFAN (Thiodan 1) | 0.5 | 0.516 | 103 | 0.419 | 84 | 0.440 | 88 | 0.650 | 130 | 0.53 | 106 |
| | 1.0 | 1.05 | 105 | 1.17 | 117 | 0.800 | 80 | 1.08 | 108 | 0.91 | 91 |
| | 5.0 | 5.08 | 102 | 4.84 | 97 | 4.78 | 96 | 4.67 | 93 | 5.55 | 111 |
| | 10 | 10.8 | 108 | 9.7 | 97 | 12.0 | 120 | 10.7 | 107 | 10.6 | 106 |
| 7) OXYFLUORFEN | 1.0/0.5 | 1.03 | 103 | 1.03 | 103 | 1.13 | 113.0 | 0.440 | 88 | 0.78 | 156 |
| | 2.0/1.0 | 1.84 | 92 | 2.03 | 102 | 1.88 | 94 | 1.06 | 106 | 1.06 | 106 |
| | 10/5.0 | 9.70 | 97 | 8.93 | 89 | 9.94 | 99 | 4.78 | 96 | 5.52 | 110 |
| | 20.0/10.0 | 18.9 | 95 | 19.8 | 99 | 23.2 | 116 | 10.5 | 105 | 11.1 | 111 |
| 8) ENDOSULFAN SULFATE | 0.5 | 0.534 | 107 | 0.555 | 111 | 0.670 | 134 | 0.510 | 102 | 0.620 | 124 |
| | 1.0 | 0.882 | 88 | 0.966 | 97 | 1.05 | 105 | 1.11 | 111 | 0.930 | 93 |
| | 5 | 4.49 | 90 | 4.88 | 98 | 5.23 | 105 | 4.93 | 99 | 5.46 | 109 |
| | 10.0 | 12.0 | 120 | 9.00 | 90 | 12.3 | 123 | 11.4 | 114 | 11.0 | 110 |
| 9) PROPARGITE | 1.0/0.5 | 0.972 | 97 | 0.801 | 80 | 1.36 | 136 | 0.390 | 78 | 0.550 | 110 |
| | 2.0/1.0 | 2.13 | 107 | 2.11 | 106 | 2.03 | 102 | 1.11 | 111 | 1.10 | 110 |
| | 10/5.0 | 12.3 | 123 | 8.41 | 84 | 8.65 | 87 | 3.83 | 77 | 4.97 | 99 |
| | 20.0/10.0 | 18.9 | 95 | 16.8 | 84 | 21.4 | 107 | 8.65 | 87 | 9.36 | 94 |
| 10) PERMETHRIN | 1.0/0.5 | 0.960 | 96 | 1.00 | 100 | 1.10 | 110.0 | 0.470 | 94 | 0.500 | 100 |
| | 2.0/1.0 | 1.93 | 97 | 2.25 | 112 | 1.90 | 95 | 1.02 | 102 | 0.870 | 87 |
| | 10/5.0 | 9.44 | 94 | 9.60 | 96 | 10.6 | 106 | 5.00 | 100 | 5.52 | 110 |
| | 20.0/10.0 | 19.0 | 95 | 19.7 | 99 | 24.9 | 124 | 10.5 | 105 | 11.2 | 112 |
| 11) CYPERMETHRIN | 1.0/0.5 | 0.974 | 97 | 1.03 | 103 | 1.33 | 133 | 0.650 | 130 | 0.540 | 108 |
| | 2.0/1.0 | 1.77 | 89 | 2.11 | 106 | 2.06 | 103 | 1.20 | 120 | 0.900 | 90 |
| | 10.0/5.0 | 9.20 | 92 | 9.34 | 93 | 10.0 | 100 | 4.36 | 87 | 5.29 | 106 |
| | 20.0/10.0 | 19.6 | 98 | 16.5 | 83 | 24.0 | 120 | 11.5 | 115 | 11.5 | 115 |

# Appendix 5
# Sample Storage Data

**Storage Recovery LC-MS**

| | | | Sample 1 | | Sample 2 | | Sample 3 | |
|---|---|---|---|---|---|---|---|---|
| | | Sp ked (µg) | Found(µg) | Recovery (%) | Found (µg) | Recovery (%) | Found (µg)) | Recovery (%) |
| DimethoateOA | Day 0 | none | 0.415 | | trace | | 0.398 | |
| | Day 7 | none | trace | | 0.39 | | 0.403 | |
| | Day14 | none | 0.513 | | 0.481 | | 0.578 | |
| | Day 28 | none | trace | | trace | | trace | |
| Dimethoate | Day 0 | 10.0 | 10.4 | 104 | 8.55 | 86 | 9.78 | 98 |
| | Day 7 | 10.0 | 9.56 | 96 | 9.54 | 95 | 9.33 | 93 |
| | Day14 | 10.0 | 9.68 | 97 | 10.5 | 105 | 8.04 | 80 |
| | Day 28 | 10.0 | 10.7 | 107 | 9.86 | 99 | 9.75 | 97 |
| Malathion OA | Day 0 | none | 0.194 | | trace | | 0.217 | |
| | Day 7 | none | trace | | trace | | 0.209 | |
| | Day14 | none | 0.270 | | 0.271 | | 0.301 | |
| | Day 28 | none | 0.051 | | trace | | trace | |
| Simazine | Day 0 | 10.0 | 9.99 | 100 | 9.52 | 95 | 10.3 | 103 |
| | Day 7 | 10.0 | 9.63 | 96 | 9.503 | 95 | 10.7 | 107 |
| | Day14 | 10.0 | 9.78 | 98 | 10.3 | 103 | 10.1 | 101 |
| | Day 28 | 10.0 | 10.6 | 106 | 10.0 | 100 | 10.5 | 105 |
| Diazinon OA | Day 0 | none | 0.405 | | trace | | 0.423 | |
| | Day 7 | none | trace | | 0.458 | | 0.435 | |
| | Day14 | none | 0.548 | | 0.519 | | 0.649 | |
| | Day 28 | none | trace | | trace | | trace | |
| Norflurazon | Day 0 | 10.0 | 10.4 | 104 | 9.38 | 94 | 10.6 | 106 |
| | Day 7 | 10.0 | 9.28 | 93 | 9.341 | 93 | 9.84 | 98 |
| | Day14 | 10.0 | 10.4 | 104 | 10.4 | 104 | 10.7 | 107 |
| | Day 28 | 10.0 | 11.2 | 112 | 10.5 | 105 | 10.2 | 102 |
| Diuron | Day 0 | 10.0 | 8.91 | 89 | 9.26 | 93 | 9.99 | 100 |
| | Day 7 | 10.0 | 11.3 | 113 | 10.1 | 101 | 9.49 | 95 |
| | Day14 | 10.0 | 11.5 | 115 | 10.7 | 107 | 10.4 | 104 |
| | Day 28 | 10.0 | 9.54 | 95 | 10.0 | 100 | 8.98 | 90 |
| Phosmet | Day 0 | 10.0 | 10.8 | 108 | 10.3 | 103 | 9.10 | 91 |
| | Day 7 | 10.0 | 12.0 | 120 | 13.9 | 139 | 11.5 | 115 |
| | Day14 | 10.0 | 16.6 | 166 | 18.1 | 181 | 16.4* | 164 |
| | Day 28 | 10.0 | 12.4* | 124 | 11.5 | 115 | 11.7 | 117 |
| Azinphos Methyl | Day 0 | 10.0 | 10.1 | 101 | 9.98 | 100 | 11.0 | 110 |
| | Day 7 | 10.0 | 11.5 | 115 | 11.460 | 115 | 11.466 | 115 |
| | Day14 | 10.0 | 9.23 | 92 | 10.8 | 108 | 9.30 | 93 |
| | Day 28 | 10.0 | 10.6 | 106 | 9.99 | 100 | 9.59 | 96 |
| Molinate | Day 0 | 10.0 | 8.29 | 83 | 8.77 | 88 | 7.62 | 76 |
| | Day 7 | 10.0 | 8.90 | 89 | 8.212 | 82 | 7.702 | 77 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Day14 | 10.0 | 8.49 | 85 | 8.40 | 84 | 7.91 | 79 |
| | Day 28 | 10.0 | 10.5 | 105 | 9.41 | 94 | 9.70 | 97 |
| Malathion | Day 0 | 10.0 | 8.49 | 85 | 8.03 | 80 | 7.36 | 74 |
| | Day 7 | 10.0 | 7.80 | 78 | 7.748 | 77 | 7.320 | 73 |
| | Day14 | 10.0 | 10.2 | 102 | 9.23 | 92 | 7.42 | 74 |
| | Day 28 | 10.0 | 10.4 | 104 | 9.91 | 99 | 9.72 | 97 |
| Metolachlor | Day 0 | 10.0 | 11.3 | 113 | 9.62 | 96 | 11.7 | 117 |
| | Day 7 | 10.0 | 9.95 | 100 | 9.274 | 93 | 9.484 | 95 |
| | Day14 | 10.0 | 9.14 | 91 | 10.1 | 101 | 9.62 | 96 |
| | Day 28 | 10.0 | 10.2 | 102 | 9.81 | 98 | 9.90 | 99 |
| Propanil | Day 0 | 10.0 | 10.9 | 109 | 9.75 | 97 | 10.8 | 108 |
| | Day 7 | 10.0 | 9.43 | 94 | 10.181 | 102 | 10.563 | 106 |
| | Day14 | 10.0 | 9.47 | 95 | 10.8 | 108 | 10.0 | 100 |
| | Day 28 | 10.0 | 9.14 | 91 | 9.00 | 90 | 8.93 | 89 |
| Chlorpyrifos OA | Day 0 | none | 0.403 | | 0.36 | | 0.398 | |
| | Day 7 | none | 0.273 | | 0.315 | | 0.300 | |
| | Day14 | none | trace | | trace | | trace | |
| | Day 28 | none | 0.303 | | 0.322 | | ND | |
| EPTC | Day 0 | 10.0 | 8.18 | 82 | 9.13 | 91 | 7.82 | 78 |
| | Day 7 | 10.0 | 8.54 | 85 | 7.836 | 78 | 7.625 | 76 |
| | Day14 | 10.0 | 7.40 | 74 | 7.60 | 76 | 7.38 | 74 |
| | Day 28 | 10.0 | 9.48 | 95 | 9.57 | 96 | 8.69 | 87 |
| Oryzalin | Day 0 | 10.0 | 9.83 | 98 | 8.71 | 87 | 9.76 | 98 |
| | Day 7 | 10.0 | 10.8 | 108 | 10.4 | 104 | 10.1 | 101 |
| | Day14 | 10.0 | 10.4 | 104 | 10.6 | 106 | 10.5 | 105 |
| | Day 28 | 10.0 | 11.9 | 119 | 11.7 | 117 | 11.3 | 113 |
| Diazinon | Day 0 | 10.0 | 9.25 | 92 | 9.89 | 99 | 9.15 | 91 |
| | Day 7 | 10.0 | 9.93 | 99 | 9.87 | 99 | 9.22 | 92 |
| | Day14 | 10.0 | 9.18 | 92 | 9.86 | 99 | 9.77 | 98 |
| | Day 28 | 10.0 | 11.6 | 116 | 10.8 | 108 | 10.8 | 108 |
| Thioben carb | Day 0 | 10.0 | 8.72 | 87 | 9.02 | 90 | 9.41 | 94 |
| | Day 7 | 10.0 | 9.94 | 99 | 10.1 | 101 | 9.66 | 97 |
| | Day14 | 10.0 | 10.2 | 102 | 11.1 | 111 | 9.32 | 93 |
| | Day 28 | 10.0 | 9.77 | 98 | 9.90 | 99 | 9.97 | 100 |
| DEF | Day 0 | 10.0 | 9.84 | 98 | 9.51 | 95 | 10.3 | 103 |
| | Day 7 | 10.0 | 9.84 | 98 | 9.93 | 99 | 10.31 | 103 |
| | Day14 | 10.0 | 10.5 | 105 | 11.1 | 111 | 10.3 | 103 |
| | Day 28 | 10.0 | 10.3 | 103 | 9.65 | 97 | 9.63 | 96 |

**Storage Recovery GC-MS**

| | | | Sample 1 | | Sample 2 | | Sample 3 | |
|---|---|---|---|---|---|---|---|---|
| | | Sp ked (ug) | Found (ug) | % recovery | Found (ug) | % recovery | Found (ug) | % recovery |
| 1) DICHLORVOS | Day 0 | 10 | 10.8 | 108 | 11.4 | 114 | 10.1 | 101 |
| | Day 7 | 10 | 7.38 | 74 | 10.6 | 106 | 8.78 | 88 |
| | Day 14 | 10 | 11.7 | 117 | 8.1 | 81 | 12.6 | 126 |
| | DAy28 | 10 | 7.82 | 78 | 7.9 | 79 | 6.16 | 62 |
| 2) TRIFLURALIN | Day 0 | 10 | 10.5 | 105 | 11.6 | 116 | 10.2 | 102 |
| | Day 7 | 10 | 8.2 | 82 | 10.7 | 107 | 10.1 | 101 |
| | Day 14 | 10 | 11.0 | 110 | 8.3 | 83 | 11.8 | 118 |
| | DAy28 | 10 | 8.76 | 88 | 8.7 | 87 | 7.1 | 71 |
| 3) CHLOROTHALONIL | Day 0 | 10 | 13.0 | 130 | 13.9 | 139 | 11.7 | 117 |
| | Day 7 | 10 | 8.32 | 83 | 12.4 | 124 | 11.5 | 115 |
| | Day 14 | 10 | 12.2 | 122 | 8.8 | 88 | 13.5 | 135 |
| | DAy28 | 10 | 12.2 | 122 | 13.0 | 130 | 11.6 | 116 |
| 4) CHLORPYRIFOS | Day 0 | 10 | 10.4 | 104 | 12.1 | 121 | 10.0 | 100 |
| | Day 7 | 10 | 7.5 | 75 | 12.2 | 122 | 9.16 | 92 |
| | Day 14 | 10 | 11.7 | 117 | 7.4 | 74 | 11.4 | 114 |
| | DAy28 | 10 | 8.33 | 83 | 8.5 | 85 | 7.97 | 80 |
| 5) DICOFOL p,p' | Day 0 | 10 | 10.7 | 107 | 11.7 | 117 | 10.5 | 105 |
| | Day 7 | 10 | 9.36 | 94 | 12.3 | 123 | 12.1 | 121 |
| | Day 14 | 10 | 12.0 | 120 | 9.5 | 95 | 12.2 | 122 |
| | DAy28 | 10 | 8.82 | 88 | 9.1 | 91 | 7.58 | 76 |
| 6) Endosulfan | Day 0 | 10 | 10.2 | 102 | 12.6 | 126 | 10.1 | 101 |
| | Day 7 | 10 | 7.64 | 76 | 12.1 | 121 | 10.5 | 105 |
| | Day 14 | 10 | 11.5 | 115 | 8.2 | 82 | 12.1 | 121 |
| | DAy28 | 10 | 8.92 | 89 | 8.9 | 89 | 7.51 | 75 |
| 7) OXYFLUORFEN | Day 0 | 10 | 11.1 | 111 | 12.4 | 124 | 10.6 | 106 |
| | Day 7 | 10 | 7.84 | 78 | 12.6 | 126 | 10.7 | 107 |
| | Day 14 | 10 | 11.0 | 110 | 8.28 | 83 | 11.5 | 115 |
| | DAy28 | 10 | 8.63 | 86 | 8.76 | 88 | 7.41 | 74 |
| 8) ENDOSULFAN SULFATE | Day 0 | 10 | 11.1 | 111 | 12.3 | 123 | 9.20 | 92 |
| | Day 7 | 10 | 8.16 | 82 | 11.0 | 110 | 10.2 | 102 |
| | Day 14 | 10 | 10.8 | 108 | 7.04 | 70 | 11.6 | 116 |
| | DAy28 | 10 | 10.1 | 101 | 11.0 | 110 | 8.56 | 86 |
| 9) PROPARGITE | Day 0 | 10 | 7.28 | 73 | 7.92 | 79 | 9.26 | 93 |
| | Day 7 | 10 | 8.28 | 83 | 10.6 | 106 | 8.88 | 89 |
| | Day 14 | 10 | 11.6 | 116 | 7.9 | 79 | 10.2 | 102 |
| | DAy28 | 10 | 7.16 | 72 | 6.83 | 68 | 7.11 | 71 |
| 10) PERMETHRIN | Day 0 | 10 | 10.6 | 106 | 11.9 | 119 | 10.9 | 109 |
| | Day 7 | 10 | 8.54 | 85 | 11.5 | 115 | 11.4 | 114 |
| | Day 14 | 10 | 11.9 | 119 | 8.7 | 87 | 11.7 | 117 |
| | DAy28 | 10 | 9.62 | 96 | 9.97 | 100 | 7.37 | 74 |
| 11) CYPERMETHRIN | Day 0 | 10 | 10.9 | 109 | 13.2 | 132 | 11.1 | 111 |
| | Day 7 | 10 | 8.78 | 88 | 12.1 | 121 | 10.2 | 102 |
| | Day 14 | 10 | 11.4 | 114 | 8.26 | 83 | 11.8 | 118 |
| | DAy28 | 10 | 7.51 | 75 | 7.57 | 76 | 7.12 | 71 |

## Appendix 6
## Trapping Efficiency Data

**Trappimg Efficiency**

| Sample ID | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Spiked (µg) | | 10.0 | 10.0 | 10.0 | 5.0 | 5.0 | 5.0 | 2.0 | 2.0 | 2.0 |
| DimethoateOA | No spike | 0.803 | 0.646 | 1.00 | 0.490 | 0.503 | 0.582 | 0.051 | 0.25 | trace |
| Dimethoate | | 8.39 | 8.95 | 7.60 | 4.30 | 4.01 | 4.21 | 1.53 | 1.75 | 2.05 |
| Malathion OA | No spike | 0.315 | 0.264 | 0.383 | 0.167 | 0.206 | 0.233 | trace | trace | trace |
| Simazine | | 11.1 | 10.2 | 11.3 | 5.23 | 5.28 | 4.93 | 2.18 | 2.27 | 2.29 |
| Diazinon OA | No spike | 0.552 | 0.507 | 0.677 | 0.311 | 0.376 | 0.399 | trace | trace | trace |
| Norflurazon | | 0.900 | 1.39 | 0.858 | 1.90 | 0.877 | 0.481 | 2.04 | 0.825 | 1.84 |
| Diuron | | 8.27 | 7.65 | 8.87 | 4.02 | 3.17 | 4.17 | 2.14 | 1.97 | 2.08 |
| Phosmet | | 10.6 | 9.79 | 10.5 | 3.89 | 4.66 | 4.51 | 2.36 | 1.76 | 2.24 |
| Azinphos Methyl | | 6.67 | 6.65 | 7.24 | 2.68 | 3.06 | 3.18 | 1.77 | 1.58 | 1.74 |
| Molinate | | 8.46 | 8.49 | 8.41 | 4.04 | 3.84 | 4.08 | 1.89 | 1.67 | 1.99 |
| | | | | | | | | | | |
| Malathion | | 6.89 | 8.73 | 10.4 | 3.80 | 3.56 | 4.45 | 2.26 | 1.84 | 1.93 |
| Metolachlor | | 8.37 | 6.40 | 7.71 | 4.81 | 3.80 | 4.11 | 1.94 | 1.75 | 1.83 |
| Propanil | | 10.5 | 9.32 | 10.2 | 5.08 | 5.01 | 4.58 | 1.68 | 1.91 | 2.31 |
| Chlorpyrifos OA | No spike | 0.47 | 0.45 | 0.496 | 0.434 | 0.437 | 0.456 | trace | 0.400 | trace |
| EPTC | | 9.05 | 8.87 | 8.81 | 4.11 | 4.02 | 3.74 | 1.86 | 1.69 | 1.84 |
| Oryzalin | | 1.25 | 1.73 | 1.34 | 2.26 | 0.95 | 0.53 | 1.74 | 0.473 | 1.65 |
| Diazinon | | 10.6 | 8.54 | 8.84 | 4.14 | 4.35 | 4.57 | 1.83 | 1.73 | 1.42 |
| Thioben carb | | 8.95 | 9.00 | 9.15 | 4.3 | 4.35 | 4.45 | 2.00 | 1.82 | 2.12 |
| DEF | | 9.85 | 9.09 | 10.1 | 4.59 | 4.6 | 4.81 | 1.9 | 1.81 | 2.06 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) DICHLORVOS | | 11.2 | 12.8 | 9.88 | 5.2 | 5.58 | 5.86 | 1.36 | 1.62 | 1.70 |
| 2) TRIFLURALIN | | 6.74 | 9.30 | 6.86 | 4.62 | 3.86 | 4.20 | 1.24 | 1.52 | 1.58 |
| 3) CHLOROTHALONIL | | 11.4 | 8.92 | 6.54 | 4.94 | 3.14 | 3.52 | 1.74 | 1.58 | 1.86 |
| 4) CHLORPYRIFOS | | 10.1 | 11.0 | 8.52 | 4.60 | 4.40 | 4.78 | 1.08 | 1.30 | 1.24 |
| 5) DICOFOL p,p' | | 10.3 | 11.4 | 9.9 | 5.14 | 5.22 | 4.98 | 1.24 | 1.84 | 1.58 |
| 6) Endosulfan | | 10.1 | 11.5 | 9.66 | 5.28 | 5.00 | 5.36 | 1.14 | 1.68 | 1.48 |
| 7) OXYFLUORFEN | | 1.98 | 2.82 | 1.96 | 3.04 | 1.70 | 1.54 | 1.38 | 1.10 | 1.60 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8) ENDOSULFAN SULFATE | | 11.3 | 11.3 | 9.5 | 5.72 | 4.80 | 4.82 | 1.30 | 1.78 | 1.70 |
| 9) PROPARGITE | | 9.34 | 9.64 | 7.92 | 3.64 | 3.92 | 4.06 | 1.02 | 1.28 | 1.08 |
| 10) PERMETHRIN | | 8.70 | 10.1 | 9.24 | 5.36 | 4.90 | 4.72 | 1.18 | 1.88 | 1.62 |
| 11) CYPERMETHRIN | | 9.86 | 10.0 | 9.24 | 6.22 | 5.44 | 5.46 | 2.44 | 2.82 | 2.68 |

## Appendix 7

### Cleaning XAD-4 resin

1. Measure 1.6 kg XAD-4 resin (about 3.0-3.5 liters) to a 6 liters Teflon (or Glass) container.
2. Wet with 2 liters of residue grade methanol. Then add 2 liters of 0.25 N HCl. Stir occasionally with a glass or Teflon rod for about 30 minutes.
3. Transfer the content to a glass cylinder (An open-end cylinder with rubber stopper tightly fit the bottom. A glass tube is inserted through the stopper and connected to a d.i water faucet.). Cover the top with a fine screen .
4. Overfill the cylinder with d.i water through the bottom at about 30 mL/min for at least 4 hours. The pH should be that of d.i water, or no $Cl^-$ reaction with a drop of 0.1 N $AgNO_3$ solution added to a 1 mL of out going water.
5. Transfer the water washed XAD-4 to the container of Soxhlet extractor. Drain the water through the stopcock. Add residue grade methanol to just cover the resin. Stir with a glass rod to help remove the air bubble.( Do not disturb the glass wool plug.). Drain the methanol through the stopcock.
6. Add about 4 liters methanol to the resin and allow the methanol to be siphoned to the solvent flask. The solvent flask should be 60% full.
7. Start the extraction and continue for at least 72 hours
8. Change extraction solvent to ethyl acetate and continue the process for at least 72 hours.
9. Dry the resin at 28 inches vacuum or higher and 40 °C for at least 72 hours until all traces of ethyl acetate is gone. During the drying process allow dry air sweep through the oven at a flow rate that can just be felt by placing finger on the air inlet tube.

Note: Use residue grade methanol and ethyl acetate to wash the resin

**Author**:

_____ _____
Paul Lee Date
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**Approved By**:

_____ _____
Stephen Siegel Date
Section Supervisor

**Reviewed By:**

_____ _____
Elaine Wong Date
Program Supervisor

## Revision Log:

| Date | What was Revised? Why? |
|---|---|
| 10/27/2008 | Added in section 15.1 |
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California Department of Food and Agriculture
Center for Analytical Chemistry
Environmental Monitoring Section
3292 Meadowview Road
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# Title: Determination of MITC in Air By GC/NPD or GC/TSD

1. Scope

This section method (SM) is for the analysis of MITC from air sample tubes using GC/NPD or GC/TSD and is to be followed by all authorized EMON section personnel. The reporting limit of MITC is 0.2 µg per sample by NPD and 0.05 µg per sample by TSD.

2. Principle:

Residues of MITC (methyl isothiocyanate), $CH_3$ --N=C=S, that has been absorbed from the air onto activated charcoal is desorbed from the charcoal with 0.1% $CS_2$ in ethyl acetate. It is analyzed by gas chromatography using a nitrogen phosphorus detector (GC/NPD or GC/TSD).

3. Safety:

3.1 All general laboratory safety rules for sample preparation and analysis shall be followed.
3.2 All solvents should be handled with care in a ventilated area.

4. Interferences:

No known matrix interferences that cause quantitative problems above the established reporting level. However, nitrogen or phosphorus compounds with the same retention time may interfere with the quantification.

5. Apparatus and Equipment:

5.1 Test tubes, 25 mL, with Teflon lined screw cap
5.2 Assorted pipettes and micro syringes
5.3 Volumetric flasks
5.4 Files able to score the sample tubes or a Dremel (an electric rotary flex shaft tool) with ¾" diamond saw
5.5 Thermolyne Vortex Maxi mixer
5.6 Forceps
5.7 Plug puller, Supelco #2-0596

5.8 HP 6890 gas chromatograph with NPD or Varian 3800 gas chromatography with TSD.

6. Reagents and Supplies

6.1 Carbon disulfide, nanograde
6.2 Standards:
Obtain 1.0 mg/mL reference standards of MITC from the Standard Repository, CAC, CDFA, 3292 Meadowview Road, Ca 95832.
MITC CAS Number 556-61-6
6.3 Charcoal tubes: SKC #226-09, lot #120
6.4 Ethyl Acetate, pesticide residue grade
6.5 Filters, Nylon Acrodisc, 0.45 μm, Gelman Sciences

7. Standards Preparation:

7.1 Dilute the 1.0 mg/mL standards, obtained from the CDFA/CAC Standards Repository, with the solution of 0.1% $CS_2$ in ethyl acetate. The working standards shall be prepared to cover the linear range from 0.025ηg/μL to 5.0 ηg/μL. The levels we prepared are 0.025, 0.05, 0.10, 0.25, 0.50, 1.0, 5.0 ηg/μL

7.2 Keep all standards in designated refrigerator for storage.

7.3 The expiration date of each mixed working standard is six months from the preparation date.

8. Sample Preservation and Storage:

All samples to be extracted shall be stored in a designated freezer and all sample extracts shall be stored in a designated refrigerator (0-5 °C).

9. Test Sample Preparation:

9.1 Sample Preparation

9.1.1 Remove samples from refrigerator to the laboratory bench and allow the samples to warm to near ambient temperature.
9.1.2 Fold a white sheet of 8x11 printer paper into quarters, reopen and place it under the tube to catch any spilled charcoal.

9.1.3 Score the tube with a file or a dremel near the wide end of the metal spring. Break the tube by holding it with both hands at each side of the cut, having the cut pointing away from you and push the tube by the tips of your thumbs.

9.1.4 Use a 9" disposable pipette to push all tube material into a test tube containing 5.0 mL of 0.1% $CS_2$ in ethyl acetate and cap the tube immediately.

9.1.5 Allow samples to desorb for 30 minutes and vortex them occasionally

9.1.6 Filter the mixture through a nylon Acrodisc and collect it in two auto-sampler vials. Cap them immediately. Store one vial in a designated freezer for possible later use

9.2 Spike extraction: Break both ends of a charcoal tube with a file or a dremel. Use a syringe to spike a known amount of MITC through glass wool onto the center of charcoal section. Follow the steps 9.1.3 through 9.1.6 to do extraction.

9.3 Confirmation by mass spectrometer may be performed on GC/MSD on Sim mode (ions 73, 58, 45), if required.

10 Instrument Calibration:

10.1 The concentrations of the standards we used for establishing the calibration curve were 0.025, 0.05, 0.10, 0.25, 0.50, 1.0 and 5.0ng/μL

10.2 A solution of 0.04 ng/μL equals to the RL of 0.2 μg/sample.

11 Analysis:

11.1 Injection Scheme

Follow the sequence of a set of calibration standards, a matrix blank, a matrix spike, a set of 12 or less test samples, a set of standards, etc.

11.2 Instrumentations and operating conditions:

11.2.1 Varian gas chromatograph model 3800 with dual injectors and dual TSD detectors. Varian auto sampler model CP8400. Varian software Galaxie version

Column: DB-FFAP, 10 m x 0.53 mm x 1.0 μm

Gas Flow:
Carrier gas, constant flow (Helium) at 10 mL/min
He makeup flow, 25 mL/min
Hydrogen flow, 5.4 mL/min
Air flow, 190 mL/min.

Temperature:
Oven temperature program,

| Rate(°C/min) | Temperature (°C) | Time (minute) |
|---|---|---|
| Initial | 45 | 1 |
| 15 | 90 | 4 |
| 50 | 220 | 6.6 |

Injector temperature: 200 °C
Detector temperature: 250 °C

Retention time: 3.0 min

Injection Volume: 2.0 μL

11.2.2 HP 6890 gas chromatograph with dual injectors and dual NPD detectors.
Column: DB-FFAP, 10 m x 0.53 mm x 1.0 μm

Gas Flow:
Carrier gas, constant flow (Helium) at 9 mL/min
He makeup + carrier flow, 12 mL/min
Hydrogen flow, 3.0 mL/min
Air flow, 60 mL/min.

Temperature:
Oven temperature program,
Initial temp.: 45°C for 7 minutes
Rate: 40°C/minute
Final temp.: 200°C
Injector temperature: 220 °C
Detector temperature: 250 °C

Retention time: 5.8 min

Injection Volume: 2.0 µL

11.2.3 Mass spectrometer and Operating Parameters

Model: Agilent 6890 equipped with 5972 mass selective detector
Column: RX-200 trifluoropropylmethyl polysiloxane, 60m x 0.32 mm x 1.5 µm cat #15072

| | |
|---|---|
| Injector temperature: | 210 °C |
| Initial column temp: | 40 °C for 4 minutes |
| Ramp 1 rate: | 12 °C per minutes |
| Final temperature 1: | 160 °C |
| Ramp 2 rate: | 40 °C per minutes |
| Final temperature 2: | 240 °C for 1 minute |

Mass spectrometer parameters:

| | |
|---|---|
| Transfer line heater: | 280 °C |
| Dwell time: | 30 milliseconds |
| Selected ions: | 72, 73, 45, 58 |
| Injection volume: | 2.0 µL |
| Retention time: | 12.01 minutes |

12. Quality Control:

12.1 A six point standard curve of 0.025, 0.05, 0.1, 0.5, 1.00 and 5.00 µg/mL shall be obtained at the beginning and the end of each set of samples for calculating the response factors and checking the instrument performance.

12.2 Each set of samples shall have a matrix blank and minimum of one matrix spike sample. Each set contains up to 10 samples.

12.3 The matrix blank shall be free of target compounds.

12.4 The recoveries of the matrix spike shall be within the control limits.

12.5 The retention time shall be within ± 5 seconds of that of the standard.

12.6 The sample must be diluted if results fall outside the linear range of the standard curve.

12.7 Bracketing standard response shall have a percent change less than 10 %

12.8 Method Detection Limits (MDL)
The method detection limit refers to the lowest concentration of analyte that a method can detect reliably. To determine the MDL, 7 replicate charcoal tubes samples are spiked with 0.10μg of MITC solution. The standard deviation of the findings from the spiked sample are used to calculate the MDL using the follow equation:

$$MDL = tS$$

Where t is the Student t test value for the 99% confidence level with n-1 degrees of freedom and S denotes the standard deviation obtained from n replicate analyses. For the n=7 replicate used to determine the MDL, t=3.143.

12.9 Reporting limit (RL):
The reporting limit (RL) refers to the level at which reliable quantitative results may be obtained. The MDL is used as a guide to determine the RL. Per client agreement, the RL is chosen in a range 1-5 times the MDL., unless otherwise agreed upon by client.

MDL data and the RL are tabulated in Appendix 1

12.10 Method Validation Recovery Data and Control Limits:

12.10.1 The method validation consisted of five sample sets. Each set included three levels of fortification (0.4, 3.0 and 8.0 μg/sample) and a method blank. A reagent blank shall be included when a new lot of solvent is used for extraction. All spikes, method blank and reagent blank samples were processed through the entire analytical method.

12.10.2 Upper and lower warning and control limits are set at ± 2 and 3 standard deviations of the average % recovery, respectively.

Method validation results and control limits are tabulated in Appendix 2

13. Calculations:

13.1 The quantification is based on the area counts of the target compound. The calculation is based on external standard (ESTD) and linear fit

13.2 The correlation coefficient, slope, intercept of the linear regression line are calculated once the calibration standards are defined. The equation for calculating analytes is as follows:

$$y = mx + b$$

Where: y = peak response
m = slope
b = intercept
x = concentration of compound

When the unit and the dilution factor are entered correctly in the analysis sequence, the software will then correctly generate the results.

13.3 Results can be manually calculated by a single point standard. The unit is µg per sample for all samples. This calculation is to verify the results derived from the instrument

The general equation is as follows:

$$\mu g = \frac{(\text{sample peak area})\,(\text{std. conc. ng}/\mu L)\,(\text{std. vol. injected})\,(\text{sample final vol., (mL)})(1000\ \mu L/mL)}{(\text{std. peak area})\,(\text{sample vol. injected})\,(1000 ng/\mu g)}$$

14.1 Acceptance Criteria:

14.1.1 Peak retention time between standards, QC spikes and unknowns shall be within 5 seconds. If there is a known reason of retention time shifting, an explanation memo shall be included.

14.1.2 Peak response shall be within the calibration range

14.1.3 The $R^2$ of calibration curve or overlay calibration curves shall be greater than 0.990.

14.1.4 Recoveries of spike QC shall be within the established control range, otherwise a rerun shall be performed.

14.1.5 The result by manual single point calculation shall agree with that by the Galaxie software.

14.2 Reporting:

14.2.1 Sample results are reported out according to the client's analytical laboratory specification sheet.
14.2.2 Fill out COC, QC sheet, and control chart.
14.2.3 Prepare data package. Peer review. Report.

## 15 Discussion

15.1 This method is a revision of the reference 16.2. One modification was to add the Varian's Thermionic Specific Detect (TSD) to the method. The response of the TSD is more sensitive and more stable than that of the NPD. Therefore, it allows us to improve the reporting limit from 0.2 μg/sample to 0.05 μg/sample.
15.2 The GC-MSD parameters have also been modified. A longer column with thicker film allows the column to retain MITC longer and to improve separation from interference peaks.

## 16. References:

16.1 ICI Americas Inc., "Methyl Isothiocyanate from Metham-Sodium Determination in Air" #RRC-35, August 26, 1982.
16.2 Center of Analytical Chemistry, California Department of Food and Agriculture, "MITC in Air Sample by GC/NPD" EMON#41.9, 10/28/99. A revision of 7/08/1993.

## APPENDIX I

The Method Detection Limit (MDL) data from NPD

| | MITC Spiked (μg) | MITC Found (μg) | % |
|---|---|---|---|
| MDL-spike1 | 0.15 | 0.1314 | 87.6% |
| MDL-spike2 | 0.15 | 0.1292 | 86.1% |
| MDL-spike3 | 0.15 | 0.1245 | 83.0% |
| MDL-spike4 | 0.15 | 0.1297 | 86.5% |
| MDL-spike5 | 0.15 | 0.1191 | 79.4% |
| MDL-spike6 | 0.15 | 0.1295 | 86.3% |
| MDL-spike7 | 0.15 | 0.1211 | 80.7% |
| Average | | 0.1264 | 84.2% |
| STDEV | | 0.0048 | 3.20% |
| MDL=3.143xSTDEV | | 0.0151 | |
| RL* | | 0.20 | |

*Due to NPD response consistency problem, we set the RL at larger than 5 X of its MDL

The Method Detection Limit (MDL) data from TSD

| | MITC Spiked (μg) | MITC Found by Detector 1 (μg) | MITC Found by Detector 2 (μg) |
|---|---|---|---|
| MDL-spike1 | 0.10 | 0.1085 | 0.0930 |
| MDL-spike2 | 0.10 | 0.1100 | 0.0915 |
| MDL-spike3 | 0.10 | 0.1190 | 0.1010 |
| MDL-spike4 | 0.10 | 0.1210 | 0.1010 |
| MDL-spike5 | 0.10 | 0.1200 | 0.1015 |
| MDL-spike6 | 0.10 | 0.1165 | 0.1000 |
| MDL-spike7 | 0.10 | 0.1155 | 0.1000 |
| Average | | 0.1155 | 0.0983 |
| STDEV | | 0.0049 | 0.0042 |
| MDL=3.143xSTDEV | | 0.015 | 0.013 |
| RL | | 0.05 | 0.05 |

## Appendix 2
## Method Validation Data for MITC from NPD

| Spike Level MITC Spiked (µg) | Set1 MITC found (%) | Set 2 MITC found (%) | Set 3 MITC found (%) | Set 4 MITC found (%) | Set 5 MITC found (%) |
|---|---|---|---|---|---|
| 0.4 | 83.8 | 91.2 | 89.0 | 104.3 | 86.4 |
| 3.0 | 82.4 | 88.4 | 96.0 | 102.8 | 87.9 |
| 8.0 | 84.7 | 85.7 | 77.0 | 80.8 | 80.6 |

| | | |
|---|---|---|
| Average | | 88.07% |
| Standard Deviation | | 7.817% |
| Upper warning Limit | 2x Stdev | 103.70% |
| Upper Control Limit | 3x Stdev | 111.52% |
| Lower warning Limit | 2x Stdev | 72.43% |
| Lower Control Limit | 3x Stdev | 64.61% |

## Method Validation Data for MITC from TSD

| Spike Level MITC Spiked (µg) | Set1 MITC found (%) | Set 2 MITC found (%) | Set 3 MITC found (%) | Set 4 MITC found (%) | Set 5 MITC found (%) |
|---|---|---|---|---|---|
| 0.1 | 102.0 | 99.0 | 96.0 | 99.0 | 97.0 |
| 0.4 | 82.5 | 87.5 | 87.5 | 90.0 | 85.0 |
| 3.0 | 97.3 | 106.7 | 103.3 | 93.0 | 112.7 |
| 8.0 | 97.8 | 98.5 | 92.3 | 86.9 | 100.3 |

| | | |
|---|---|---|
| Average | | 95.72% |
| Standard Deviation | | 7.67% |
| Upper warning Limit | 2x Stdev | 111.06.% |
| Upper Control Limit | 3x Stdev | 118.73% |
| Lower warning Limit | 2x Stdev | 80.37% |
| Lower Control Limit | 3x Stdev | 72.69% |

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## Revision Log:

| Date | What was Revised? Why? |
|---|---|
| 9/20/04 | Formatting to ISO format |
| 9/20/04 | Adding a new instrument (Varian TSD) and the parameters to the method |
| 9/20/04 | Reducing reporting limit to 0.05 μg from 0.2 μg |
| 9/20/04 | Adding new validation data obtained from TSD to the method |
| 9/20/04 | Modifying the confirmation MSD method parameters |

# APPENDIX F

Derivation of Screening Levels

## Health Evaluation Methods

No state or federal agency has established health standards for pesticides in air. Therefore, DPR developed health screening levels for these pesticides to place the results in a health-based context. Although not regulatory standards, these screening levels can be used in the process of evaluating the air monitoring results. A measured air level that is below the screening level for a given pesticide would not be considered to represent a significant health concern and would not generally undergo further evaluation, but also should not automatically be considered "safe" and could undergo further evaluation. By the same token, a measured level that is above the screening level would not necessarily indicate a significant health concern, but would indicate the need for a further and more refined evaluation. Significant exceedances of the screening levels could be of health concern and would indicate the need to explore the imposition of mitigation measures.

In 1996, Congress passed major pesticide food safety legislation. This legislation, the Food Quality Protection Act of 1996 (FQPA), made significant changes to the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Federal Food, Drug, and Cosmetic Act (FFDCA). Among other provisions, the FQPA requires U.S. EPA to review existing pesticide food tolerances (legal limits for pesticides in food) and to include an additional "safety factor" of up to 10-fold to account for uncertainty in data relative to children. U.S. EPA generally sets the factor at 1-fold, 3-fold, or 10-fold, depending on the completeness and reliability of the data available to assess pre- or post-natal toxicity and depending on the potential for pre- or post-natal effects of concern .This additional factor has become known as the "FQPA factor" or "FQPA safety factor." Although the U.S. EPA uses this factor for evaluating pesticide food tolerances and dietary risk, the factor is applied to all potential sources of exposure to children. They have also established the FQPA factors for pesticides in the course of preparing the RED for specific chemicals. DPR evaluated the results of this project by considering the "FQPA factor" in addition to the screening levels following discussions with the LAG and TAG. These recommendations were also available for public comment.

The uncertainty factor approach used in generating the screening levels implicitly assumes that there is a threshold below which the toxic effect will not occur. This approach is not appropriate for carcinogenic chemicals that have a non-threshold mechanism of action. For these chemicals, the chronic screening level does not include carcinogenic effects, and a cancer potency value is derived for that chemical. The carcinogenic risk of these compounds is evaluated using a low dose extrapolation (non-threshold mechanism). In such an approach, the risk of cancer from exposure to a chemical is determined from the cancer potency of the chemical and the human exposure to the chemical. For each monitored chemical that ahs carcinogenic effects, the cancer potency is presented along with the screening levels. Cancer potency is expressed in the units of $(mg/kg\text{-}day)^{-1}$. Cancer risk is expressed as a probability for the occurrence of cancer (e.g., 1 in 1,000,000 or $10^{-6}$, 1 in 100,000 or $10^{-5}$, etc). It is a standard default assumption that exposure to a carcinogen takes place over a lifetime, so the default respiratory rate for an adult is used (0.28 $m^3/kg/day$).

**Screening Levels**

Acrolein

At the time DPR developed the acrolein screening level for the Parlier project, the Department had prioritized acrolein for risk assessment initiation and U.S. EPA had scheduled an RED for release. The RED has since been released and the risk assessment has been initiated. Acrolein has extensive non-pesticidal (industrial) uses. OEHHA has set acute and chronic RELs for acrolein as part of the Air Toxic Hot Spots Program.

To address chronic exposure, OEHHA used a LOAEL of 400 ppb (920 ug/$m^3$) for upper respiratory tract lesions in a rat subchronic inhalation study in which rats were exposed 6 hours a day, 5 days a week. This is normalized to 71 ppb (160 ug/$m^3$). OEHHA addressed differences in breathing rates, applied an uncertainty factor of 3 to address using a LOAEL instead of a NOAEL, applied an uncertainty factor of 3 to address using a subchronic study to derive a chronic value, an uncertainty factor of 3 to address interspecies uncertainty, and applied a factor of 10 to address intraspecies uncertainty in order to derive a chronic REL of 0.03 ppb (0.06 ug/$m^3$). This chronic REL is used as the chronic screening level. Removing the uncertainty factor of 3 for using a subchronic study (to derive a chronic value) would result in a subchronic screening level of 0.09 ppb (0.18 ug/$m^3$).

OEHHA derived an acute 1-hour LOAEL of 5 ppb based on eye irritation in human volunteers. OEHHA extrapolated the 1-hour LOAEL from the 5-minute LOAEL of 60 ppb using the equation, $C^n$ x T = K (a constant), where n=1. OEHHA then applied a factor of 6 to address the uncertainty of deriving a NOAEL from a LOAEL and an uncertainty factor of 10 to address the uncertainty of intraspecies variability. The resulting 1-hour REL is 0.09 ppb (0.19 ug/$m^3$). Using the above equation, one can calculate a 24-hour LOAEL of 0.2 ppb and a resulting 24-hour level of 0.0035 ppb (0.0079 ug/$m^3$). However, extrapolating, in effect, from 5 minutes to 24 hours introduces a great deal of uncertainty, especially for an irritative effect. This is supported by the observance that the 24-hour extrapolated acute value is less than the subchronic and chronic values. In this case, it is more appropriate to use the 1-hour value (0.19 ug/$m^3$) as the acute screening value, rather than the extrapolated 24-hour value.

The IRIS toxicology review for acrolein states that the data are not sufficient for a carcinogenicity classification.

Arsenic

OEHHA has set acute and chronic RELs for arsenic as part of the State's Air Toxic Hot Spots Program. Both the acute and chronic RELs were set based on the results of a developmental toxicity study in mice using arsenic trioxide. In the study, mice were exposed by inhalation to arsenic trioxide for four hours on gestation days 9 through 12. All values are expressed in terms of arsenic alone. The LOAEL was 0.19 mg/$m^3$ for developmental effects. OEHHA addressed differences in breathing rates and applied an uncertainty factor of 10 to address using a LOAEL instead of a NOAEL, an uncertainty factor of 10 to address interspecies uncertainty, and a factor of 10 to address intraspecies

uncertainty in order to derive an acute 4-hour REL of 0.19 ug/$m^3$. This value is multiplied by 4/24 to derive a 24-hour hour acute screening level of 0.03 ug/$m^3$. OEHHA used the same study to derive a chronic REL of 0.03 ug/$m^3$. This value was used for the chronic and subchronic screening levels.

Arsenic is a known human carcinogen. As part of Air Toxic Hot Spots Program, OEHHA list carcinogenic potency of arsenic as 12 $(mg/kg\text{-}day)^{-1}$.

Azinphos-methyl

In 2001, U.S. EPA released an Interim Reregistration Eligibility Document (IRED) on azinphos-methyl. In this document, U.S. EPA stated that the results of a 90-day rat inhalation study (6 hours per day, 5 days per week) should be used to assess inhalation of any time period. This study had a NOAEL of 1.2 mg/$m^3$ for the inhibition of plasma and red blood cell cholinesterase. This would be equivalent to a human NOAEL of 2 mg/$m^3$ for 6 hours and 0.5 mg/$m^3$ for 24 hours. Applying an uncertainty factor of 10 to address interspecies uncertainty and a factor of 10 to address intraspecies uncertainty would result in an acute screening level of 5 ug/$m^3$. Adjusting for exposure for 5/7 days results in subchronic and chronic screening levels of 3.5 ug/$m^3$. U.S. EPA did not retain the FQPA safety factor.

DPR completed a revised RCD on azinphos-methyl in 2004. The RCD used an acute NOAEL of 0.75 mg/kg, established for inhibition of blood cholinesterase in a single dose oral study in adult human volunteers. This NOAEL was similar to the NOAELs in animal studies, suggesting that humans were not more sensitive that animals. The RCD used a daily respiration rate 0.74 $m^3$/kg/day, and an uncertainty factor of 10 for intraspecies variation to arrive at an acute RfC of 101 ug/$m^3$. The RCD used a subchronic NOAEL of 0.25 mg/kg/day, established for inhibition of blood cholinesterase in a 28-day oral study in adult male human volunteers. Again, this NOAEL was similar to subchronic NOAELs from animal studies. The RCD used a daily respiration rate of 0.74 $m^3$/kg/day, an uncertainty factor of 3 to address the fact that only males were used in the study, and uncertainty factor of 10 for intraspecies variation to arrive at a subchronic RfC of 11 ug/$m^3$. The lowest NOAEL established in a chronic study was 0.15 mg/kg/day for clinical signs and red blood cell cholinesterase inhibition in an oral dog study. The RCD used this NOAEL, an uncertainty factor of 10 for intraspecies variation, and an uncertainty factor of 3 for interspecies variation to derive a chronic RfC of 6.8 ug/$m^3$. The uncertainty factor of 3 for interspecies variation was used, since the results of the subchronic human study suggested that humans were not more sensitive than animals.

Measured air levels of azinphos-methyl were compared the DPR derived screening levels. However, since the screening levels will be used to help decide if there is a need for further evaluation of measured air levels, rather than to take specific regulatory or mitigation action, U.S. EPA derived levels were also be part of the consideration.

U.S. EPA classifies azinphos-methyl as not likely to be carcinogenic to humans.

Carbon disulfide

Sodium tetrathiocarbonate is applied to soil, but converts to carbon disulfide, sodium hydroxide, hydrogen sulfide, and sulfur in the soil. Carbon disulfide exerts the pesticidal activity in the soil. Hydrogen sulfide and carbon disulfide can move to the air and can then move offsite. Carbon disulfide is also generated by the breakdown of metam sodium into MITC (methyl isothiocyanate). This screening level is set for carbon disulfide.

Carbon disulfide has extensive not-pesticidal uses and exposure sources. OEHHA has set acute and chronic RELs for carbon disulfide as part of the air Toxic Hotspots Program. OEHHA set an acute 6-hour REL of 6,200 ug/$m^3$ based on a rat inhalation developmental toxicity study. In this study, rats were exposed for 6 hours a day for gestation days 6-20. The NOAEL was 620 mg/$m^3$ for decreased fetal body weight. OEHHA applied an uncertainty factor of 10 to address interspecies variability and a factor of 10 to address intraspecies variability. The REL does not incorporate a factor to compensate for differences in breathing rates between rats and people. The 6-hour REL of 6,200 ug/$m^3$ can be multiplied by 6/24 to derive a 24-hour screening level of 1,550 ug/$m^3$.

OEHHA set a chronic REL of 800 ug/m3 based on a study that evaluated people occupationally exposed (8-hour work day) to carbon disulfide. This study established an average LOAEL of 7.6 ppm for decreased nerve conduction. OEHHA used a benchmark concentration (BMC) and compensated for 24-hour exposure to establish a human equivalent concentration of 2.54 ppm. An uncertainty factor of 10 to account for intraspecies variation was applied, resulting in a REL of 0.254 ppm. OEHHA rounded this to 0.3 ppm (800 ug/$m^3$). 800 ug/$m^3$ were used as the subchronic and chronic screening levels.

Chlorothalonil

U.S. EPA completed an RED on chlorothalonil in 1999. The RED addressed inhalation for all time periods with a NOAEL of 2 mg/kg (kidney toxicity, forestomach ulcers) in a two-year oral rat study, assuming 100% absorption. Using this NOAEL and a combined uncertainty factor of 100 (a factor of 10 to address interspecies variability and a factor of 10 to address intraspecies variability) results in a screening level of 34 ug/$m^3$ for all time periods. U.S. EPA assigned a FQPA safety factor of 1X. U.S. EPA classified chlorothalonil as likely to be a human carcinogen by all routes of exposure (based on rat kidney tumors) and calculated a potency factor of 0.00766 $(mg/kg/day)^{-1}$. The RED uses both a potency factor and RfD approach for assessing carcinogenicity.

DPR completed a dietary RCD on chlorothalonil in 2004, which calculated a potency factor of 0.011 $(mg/kg/day)^{-1}$ for kidney tumors. This slightly higher potency factor was used in this analysis. Since the RCD is limited to dietary exposure, inhalation was not included. Inhalation exposure was evaluated in a comprehensive risk assessment (evaluates all routes of exposure and exposure scenarios) whose completion is pending completion of the non-dietary exposure analysis. The completion of this risk assessment could result in changes to the above screening levels.

Chlorpyrifos

U.S. EPA completed an IRED on chlorpyrifos in 2001. The IRED addressed short-term and intermediate-term inhalation using the same subchronic rat inhalation study. Rats were exposed 6 hours per day, 5 days per week. The highest dose level was 297 ug/$m^3$, and no effects were seen at any dose level, making 297 ug/$m^3$ a health protective NOAEL. For an acute screening level, the 297 ug/$m^3$ is adjusted by 6/24 to give a 24 hour NOAEL of 74 ug/$m^3$ and a screening level of 1.2 ug/$m^3$ (employs uncertainty factors of 10 each for inter and intraspecies uncertainty and corrects for differences in breathing rates). For the subchronic screening level, the value is adjusted by 5/7 to compensate for the 5 day out of 7-day exposure, leading to a screening level of 0.85 ug/m3. For chronic exposure, the IRED used a chronic oral dog study with a NOAEL 0.03 mg/kg for cholinesterase inhibition. This leads to an RfD of 0.0003 mg/kg and a screening level of 0.51 ug/$m^3$. U.S. EPA retained the FQPA safety factor of 10X.

U.S. EPA has assigned chlorpyrifos an "E" carcinogenicity classification, evidence of non-carcinogenicity.

Copper

OEHHA set an acute REL for copper based on the effects reported in an evaluation of occupationally exposed persons. The NOEL was set at 1 mg copper/$m^3$ for "metal fume fever." Inhaled copper also causes upper respiratory irritation. OEHHA applied an uncertainty factor of 10 to account for intraspecies variation and established an acute REL of 100 ug/$m^3$. This value was used as the acute screening level. The majority of the toxicity information on copper revolves around oral exposure, not inhalation exposure, but it appears that the toxicity profile differs considerably, depending on the route of exposure. In this situation, it would be inappropriate to use oral data as the basis for generating subchronic or chronic screening levels. Applying a default uncertainty factor of 10 to the acute screening level results in a level of 10 ug/$m^3$. This value was used as the subchronic and chronic screening levels.

U.S. EPA has assigned copper a "D" carcinogenicity classification (insufficient data for classification).

Cypermethrin

At the time DPR developed the cypermethrin screening level for the Parlier project, the U.S. EPA had scheduled an RED for release. The RED has since been released. In 2001, U.S. EPA published a notice in the Federal Register establishing permanent tolerances for cypermethrin and zeta-cypermethrin. This notice contained a risk assessment of cypermethrin and stated that the NOAEL of 0.01 mg/L (10 mg/$m^3$) for body weight decrease in a 21-day subchronic inhalation study in rats should be used to assess inhalation exposure scenarios of all durations. The notice also stated that an additional uncertainty factor of 3X should be applied to the subchronic NOAEL to estimate a chronic inhalation NOAEL. In the study, exposure occurred 6 hours a day, 5 days a week. To estimate an acute 24-hour NOAEL, 10 mg/$m^3$ is adjusted by 6/24, resulting in a NOAEL of 2.5 mg/$m^3$. An adjustment of 5/7 results in a subchronic NOAEL of 1.8 mg/$m^3$ for exposure 7 days a week. The application of the previously mentioned

uncertainty factor of 3X results in a chronic NOAEL of 0.6 mg/m$^3$. Applying a correction factor of 1.6 to the NOAELs results in human equivalent acute, subchronic, and chronic NOAELs of 4.0 mg/m$^3$, 2.9 mg/m$^3$, and 0.96 mg/m$^3$, respectively. Applying an uncertainty factor of 10 for interspecies variation and 10 for intraspecies variation results in acute, subchronic, and chronic screening levels of 40 ug/m$^3$, 29 ug/m$^3$, and 9.6 ug/m$^3$, respectively. U.S. EPA assigned a FQPA safety factor of 1X.

U.S. EPA has assigned cypermethrin a "C" carcinogenicity classification (possible human carcinogen) but did not derive a cancer potency value.

Diazinon

The values for these screening levels were taken from a U.S. EPA IRED released in 2004. In this document, U.S. EPA determined that inhalation for all time periods should be evaluated using a 21-day rat inhalation study. The study used inhalation exposures of 6 hours per day, 7 days a week for 21 days. The LOAEL in this study is 0.1 ug/L (100 ug/m$^3$) for cholinesterase inhibition. U.S. EPA used a factor of 3 to derive a NOAEL from a LOAEL. Therefore, the NOAEL would be 33 ug/m$^3$. Normalizing to a 24-hour exposure results in a NOAEL of 8.33 ug/m$^3$ and a human equivalent NOAEL of 13.3 ug/m$^3$. This results in an acute, subchronic, and chronic screening level of 0.13 ug/m$^3$. U.S. EPA assigned a FQPA safety factor of 1X.

U.S. EPA has classified diazinon as "not likely to be carcinogenic to humans."

1,3-dichloropropene (1,3-D)

DPR has set RfCs for 1,3-D to support its ongoing control measures. The acute RfC of 200 ug/m$^3$ was calculated from the acute inhalation NOAEL of 10 ppm (6 hours per day) in rats, based on body weight reduction that is indicative of systemic effects. This RfC was calculated using a breathing rate for children of 0.46m$^3$/kg/day as opposed to the current default value of 0.59 m$^3$/kg/day. Using the value of 0.59 m$^3$/kg/day would result in a value of 160 ug/m$^3$. This latter value was used as the acute screening level.

The subchronic RfC of 150 ug/m$^3$ was calculated from the subchronic inhalation NOAEL of 10 ppm (6 hours per day, 5 days per week) in rats, based on degeneration and necrosis in the nasal epitheliium. This RfC was calculated using a breathing rate for children of 0.46m$^3$/kg/day as opposed to the current default value of 0.59 m$^3$/kg/day. Using the value of 0.59 m$^3$/kg/day would result in a value of 120 ug/m$^3$. This latter value was used as the subchronic screening level.

The chronic RfC of 150 ug/m$^3$ was calculated from the chronic inhalation NOAEL of 5 ppm (6 hours per day, 5 days per week) in mice, based hyperplasia and hypertrophy of the respiratory epithelium and hyperplasia of the urinary bladder mucosa. This RfC was calculated using a breathing rate for children of 0.46m$^3$/kg/day as opposed to the current default value of 0.59 m$^3$/kg/day. Using the value of 0.59 m$^3$/kg/day would result in a value of 120 ug/m$^3$. This latter value was used as the chronic screening level.

1,3-D is classified as a probable human carcinogen by U.S. EPA and is listed as a carcinogen under Proposition 65. DPR has calculated a cancer potency of 0.055 $(mg/kg/day)^{-1}$, based on the occurrence of broncheoalveolar adenomas observed in male mice in a chronic inhalation study.

Dichlorvos (DDVP)

At the time DPR developed the dichlorvos screening level for the Parlier project, the U.S. EPA had scheduled an RED for release. In 2001, U.S. EPA U.S. released a risk assessment for the RED. The RED has since been released. The risk assessment specified the use of a NOAEL of 0.1 mg/kg from an oral rabbit developmental toxicity study (maternal mortality, decreased weight gain, and cholinergic signs) to evaluate short-term inhalation. This NOAEL would result in an acute screening level of 1.7 $ug/m^3$. (U.S. EPA used an uncertainty factor of 100 X, excluding the FQPA factor, for all exposure periods.) The risk assessment specified the use of a NOAEL of 0.05 mg/kg from an oral dog chronic toxicity study (cholinesterase inhibition) to evaluate intermediate-term inhalation. This NOAEL would results in a subchronic screening level of 0.85 $ug/m^3$. The risk assessment specified the use of a NOAEL of 50 ug/m3 (inhibition of brain cholinesterase) in a chronic rat inhalation study. Exposure took place 23 hours a day, 7 days a week. The amortized NOAEL is 48 $ug/mg^3$, and the resulting screening level would be 0.77 $ug/m^3$. U.S. EPA assigned a FQPA factor of 3X and classified DDVP as having suggestive evidence of carcinogenicity.

DPR completed a RCD for DDVP in 1996, with two subsequent addenda. In the RCD, DPR evaluated acute inhalation exposure using the NOAEL of 1250 $ug/m^3$ (cholinergic signs) in a rabbit inhalation developmental toxicity study. Exposure took place 23 hours a day, 7 days a week. Amortizing the exposure to 24 hours results in a NOAEL of 1200 $ug/m^3$. Using this NOAEL and a rabbit breathing rate of 0.54 $m^3/kg/day$ and a 100 X uncertainty factor results in an acute screening level of 11 $ug/m^3$. The same study, but with the lower NOAEL 250 ug/m3, was used to evaluate subchronic inhalation. This NOAEL would result in a subchronic screening level of 2.2 $ug/m^3$. The RCD used the same chronic inhalation study as was described for the U.S. EPA risk assessment, resulting in the chronic screening level of 0.77 $ug/m^3$. The DPR also developed a potency factor of 0.35 $(mg/kg/day)^{-1}$ based on leukemia in the rat. Since they were based on inhalation studies, the screening levels from the DPR RCD were used.

Dicofol

U.S. EPA completed a RED on dicofol in 1998. To evaluate short-term inhalation exposure, the RED uses a NOAEL of 4 mg/kg for increased abortions from an oral rabbit developmental toxicity study. This NOAEL results in an acute screening level of 68 $ug/m^3$. To evaluate intermediate-term inhalation exposure, the RED uses a NOAEL of 0.29 mg/kg for inhibition of ACTH release from a 90-day oral dog study. This NOAEL results in a subchronic screening level of 49 $ug/m^3$. To evaluate long-term inhalation, the RED uses a NOAEL of 0.12 mg/kg for release of ACTH release from a chronic oral dog study. This NOAEL results in a chronic screening level of 20 $ug/m^3$. U.S. EPA assigned dicofol a carcinogen classification of C, possible human carcinogen, but recommended an RfD approach for assessing risk. U.S. EPA assigned an FQPA factor of 3X.

Dimethoate

U.S. EPA released a risk assessment on diemthoate in 1999 as part of the development of the RED. To evaluate short-term inhalation, the assessment uses a NOAEL of 2.0 mg/kg for neurotoxic effects (nerve damage) from an acute oral neurotoxicity study in rats. This NOAEL results in an acute screening level of 34 ug/m$^3$. To evaluate intermediate-term inhalation exposures, the assessment uses a LOAEL of 3.2 for cholinesterase inhibition in a 90-day oral rat study. The LOAEL is reduced by a factor of 3X to arrive at an estimated NOAEL of 1.07 mg/kg. This NOAEL results in a subchronic screening level of 17 ug/m$^3$. To evaluate long-term inhalation, the RED uses a NOAEL of 0.05 mg/kg for cholinesterase inhibition in a chronic oral rat study. This NOAEL results in a chronic screening level of 0.85 ug/m$^3$. U.S. EPA assigned dimethoate a carcinogenicity classification of C and recommended an RfD approach for risk assessment. U.S. EPA assigned an FQPA factor of 1X.

Diuron

U.S. EPA completed an RED on diuron in 1993. To evaluate short-term inhalation, the assessment uses a NOAEL 10 mg/kg for maternal toxicity in a rabbit developmental toxicity study. Applying this NOAEL, an uncertainty factor of 10 to address interspecies uncertainty, and a factor of 10 to address intraspecies uncertainty results in an acute screening level of 170 ug/m$^3$. To evaluate intermediate-term inhalation, the assessment uses a NOAEL 1.0 mg/kg for altered hematological values in the first 6 months of a chronic oral rat study. Applying this NOAEL, an uncertainty factor of 10 to address interspecies uncertainty, and a factor of 10 to address intraspecies uncertainty results in a subchronic screening level of 17 ug/m$^3$. To evaluate long-term inhalation, the assessment uses a LOAEL 1.0 mg/kg for altered hematological values in the same chronic oral rat study. U.S. EPA applied an uncertainty factor of 3 to estimate a NOAEL of 0.33 mg/kg. Applying this NOAEL, an uncertainty factor of 10 to address interspecies uncertainty, and a factor of 10 to address intraspecies uncertainty results in a subchronic screening level of 5.7 ug/m$^3$. U.S. EPA classified diuron as a likely human carcinogen (based on bladder and kidney tumors in rats and mammary tumors in mice) and derived a potency value of 0.0191 (mg/kg/day)$^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

Endosulfan

DPR is currently conducting a risk assessment on endosulfan. U.S. EPA completed an RED on endosulfan in 2002. To evaluate short-term and intermediate-term inhalation, the RED recommends the use of a 21-day inhalation study in rats. In this study, rats were exposed 6 hours a day, 5 days a week. The NOAEL for this study was 1.0 mg/m$^3$ for decreased body weight gain and hematological effects. Adjusting for the 6-hour exposure and the difference in human and rat breathing rates results in a human equivalent acute NOAEL of 0.4 mg/m$^3$ and an acute screening level of 4.0 ug/m$^3$. Adjusting for the 5 day a week exposure results in a subchronic screening level of 2.9 ug/m$^3$. The RED did not recommend a study or NOAEL to use to evaluate chronic inhalation. The RED established a chronic RfD of 0.006 mg/kg for decreased body weight gain and kidney injury from an oral rat chronic study. This would result in a chronic screening level of 10 ug/m$^3$. This value is higher than the subchronic screening level derived from an

inhalation study. Therefore, the subchronic screening level was also used to evaluate chronic exposure to endosulfan. U.S. EPA assigned an FQPA factor of 10X. U.S. EPA has classified endosulfan as not likely to be carcinogenic to humans.

EPTC

U.S. EPA completed an RED on EPTC in 1998. DPR has completed a RCD on EPTC. To evaluate short-term exposures, the RED used a NOAEL of 58 $mg/m^3$ for myocardial degeneration (heart muscle damage) from a 90-day rat inhalation study with exposure 6 hours per day, 5 days peer week. This NOAEL results in an acute screening level of 230 $ug/m^3$. To evaluate intermediate-term exposures, the RED used the same study. For exposures of less than 21 days, the RED used the above NOAEL, which results in a subchronic screening level of 170 ug/m3. For intermediate-term exposures greater than 21 days, the RED used the same study, but a NOAEL of 8.3 $mg/m^3$ for clinical signs. This NOAEL results in a subchronic screening level of 24 $ug/m^3$. The RED did not select a value for evaluating long-term inhalation. The DPR RCD used an estimated NOAEL of 0.5 mg/kg/day for neuromuscular degeneration from a two-year oral rat study. This NOAEL converts to a chronic screening level of 8.5 $ug/m^3$. U.S. EPA has classified EPTC as not likely to be carcinogenic to humans. U.S. EPA assigned a FQPA factor of 10X.

Formaldehyde

OEHHA has set acute and chronic RELs for formaldehyde as part of Air Toxic Hot Spots Program. OEHHA used a 3-hour eye irritation study using human subjects (NOAEL of 0.5 ppm). OEHHA used a benchmark approach to derive a $BC_{05}$ value of 0.44 ppm. OEHHA extrapolated a 1 hour NOAEL of 0.76 ppm using the equation, $C^n$ x T = K (a constant), where n = 2. Using an uncertainty value of 10 for interspecies uncertainty, OEHHA derived a 1-hour REL of 0.076 ppm. The above equation can be used to extrapolate a 24-hour NOAEL of 0.16 ppm (0.19 $mg/m^3$). Applying the uncertainty factor of 10 results in a acute (24-hour) screening level of 19 $ug/m^3$.

OEHHA used the results of a human occupational study to derive a chronic NOAEL. This study resulted in a chronic average NOAEL of 32 $ug/m^3$ for eye and respiratory irritation. Using an uncertainty value of 10 for interspecies uncertainty, OEHHA derived a chronic REL of 3 $ug/m^3$. This value was used for both the chronic and subchronic screening levels for formaldehyde.

Formaldehyde is a probable human carcinogen. As part of Air Toxic Hot Spots Program, OEHHA list carcinogenic potency of formaldehyde as 2.1 x $10\text{-}^{2}$ $(mg/kg\text{-}day)^{-1}$.

Malathion

U.S. EPA released a RED on malathion in 2000 and an updated risk assessment in 2005. To evaluate short-term and intermediate term inhalation exposures, the assessment used a LOAEL of 100 $mg/m^3$ for cholinesterase inhibition in a 90-day rat inhalation study in which rats were exposed 6 hours per day, 5 days per week. U.S. EPA used a factor of 10 to derive an estimated NOAEL of 10 $mg/m^3$. Using the NOAEL, adjusting for the 6-hour per day exposure, and applying a total uncertainty factor of 100 X, results in an acute

screening level of 40 ug/m$^3$. Using the NOAEL and adjusting for exposure 5 days per week, results in a subchronic screening level of 29 ug/m$^3$.

In the RED, U.S. EPA also indicated the use of the above NOAEL for evaluating long-term inhalation exposure. No recommendation was made for long-term inhalation exposure in the updated risk assessment. The updated assessment set a chronic RfD of 0.03 mg/kg (not including the FQPA factor) based on cholinesterase inhibition in a chronic oral rat study. If this RfD were used, the chronic screening level would be 51 ug/m$^3$. This is higher than the subchronic screening level generated from an inhalation study. Therefore, the lower subchronic screening level was used as the chronic screening level. U.S. EPA classified malathion as having suggestive evidence of carcinogenicity but not sufficient to assess human carcinogenic potential and indicated that a low-dose linear extrapolation model is not indicated. U.S. EPA assigned an FQPA factor of 10X.

Metam Sodium/MITC

While metam sodium is the active ingredient that is applied in agricultural settings, it converts to fumigant methyl isothiocyanate (MITC), which moves into the ambient air. Therefore, screening levels are set for MITC. DPR has completed a RCD on metam sodium and MITC. The RCD has undergone scientific peer review and has been accepted by the SRP. RELs were set in the RCD and reviewed by the SRP. DPR calculated an acute REL of 22 ppb (66 ug/m$^3$) based on eye irritation in a study of human volunteers. DPR set a subchronic REL of 1 ppb (3 ug/m$^3$) based on nasal epithelial atrophy in rat subchronic inhalation study. DPR set a chronic REL of 0.1 ppb (0.3 ug/m$^3$) based on the same subchronic rat study, but employing an uncertainty factor of 10X to address the uncertainty of using a subchronic value for chronic exposure. While metam sodium is classified by U.S. EPA as a probable human carcinogen, U.S. EPA has categorized MITC as having insufficient data for carcinogenicity classification. In the RCD, DPR concluded that the data were not sufficient to support a quantitative assessment of carcinogenicity. U.S. EPA did not assign a FQPA factor to MITC. The above RELs were used as the screening levels.

Methyl Bromide

DPR has completed an RCD for methyl bromide, which has undergone formal external peer review. RELs were set in the RCD. DPR calculated an acute REL of 210 ppb (820 ug/m$^3$) based on developmental effects (NOAEL of 40 ppm) in a rabbit developmental toxicity study. DPR calculated an REL of 9 ppb (35 ug/m$^3$) based on neurotoxic effects in a subchronic dog inhalation study designed to evaluate neurotoxicity. DPR calculated a chronic REL of 1 ppb (3.9 ug/m$^3$) based on nasal epithelial hyperplasia and degeneration in a chronic rat inhalation study. U.S. EPA has classified methyl bromide as not likely to be carcinogenic to humans. U.S. EPA assigned a FQPA factor of 1X.

Metolachlor

U.S. EPA issued a Tolerance Reassessment Decision (TRED) on metolachlor and s-metolachlor in 2002. The TRED was based on a report of the U.S. EPA Hazard Identification Assessment Review Committee (HIARC) released in 2001. In this report, U.S. EPA specified the use of the NOAEL of 50 mg/kg (for clinical signs, decreased

body weight gain, and decreased food consumption) in an oral rat developmental toxicity study with s-metolachlor, for assessing short-term inhalation exposure. U.S. EPA specified the use of the NOAEL of 8.8 mg/kg (for decreased body weight gain) in an oral dog subchronic toxicity study, for assessing intermediate-term inhalation exposure. U.S. EPA specified the use of the NOAEL of 9.7 mg/kg (for decreased body weight gain) in an oral chronic dog study with metolachlor for assessing long-term inhalation exposure. In all cases, U.S. EPA specified the use of a total uncertainty factor of 100X. This would result in acute, subchronic, and chronic screening levels of 85 ug/$m^3$, 15 ug/$m^3$, and 16 ug/$m^3$, respectively. Since the subchronic screening level is slightly lower than the chronic screening level, it was used for both subchronic and chronic. U.S. EPA has classified metolachlor as a C, possible human, carcinogen, but has specified a non-linear MOE approach. U.S. EPA assigned a FQPA factor of 1X.

Molinate

DPR completed a RCD on molinate in 1996. Although acute and subchronic rat inhalation studies were available, DPR concluded that they had questionable value in risk assessment, since the average absorbed doses (based on metabolic measurements) were grossly in excess of the theoretical values based on inhalation alone. As a result, the RCD evaluated ambient air using the NOAELs from oral studies. Acute inhalation was evaluated based on a NOAEL of 11.5 mg/kg/day for sperm abnormalities (after 5 days) in a rat study. Using this NOAEL, a combined uncertainty factor of 100, and the conversion factor of 1.7 results in a screening level of 200 ug/$m^3$. Seasonal (subchronic) inhalation was evaluated using the NOAEL of 0.48 mg/kg for sperm abnormalities from an oral 5-week rat study. Using this NOAEL, a combined uncertainty factor of 100, and the conversion factor of 1.7 results in a subchronic screening level of 8.2 ug/$m^3$.

U.S. EPA released a revised risk assessment on molinate in 2002, but stopped further work on an RED since U.S. EPA and the registrant agreed to a phase-out of the use of molinate. In the risk assessment, U.S. EPA selected the NOAEL of 120 mg/$m^3$ for neurotoxic effects in a 4-hour rat inhalation study as the basis of assessing short-term inhalation exposure. Adjusting for a full 24-hour exposure and the difference in rat and human breathing rates results in a human equivalent NOAEL of 32 mg/$m^3$. Applying the combined uncertainty factor of 100 results in a screening level of 320 ug/$m^3$. U.S. EPA selected the NOAEL of 0.3 mg/$m^3$ for reproductive effects in a 4-week rat inhalation study as the basis of assessing intermediate-term inhalation exposure. Exposure took place 6 hours a day, 5 days a week, resulting in an adjusted NOAEL of 0.054 mg/$m^3$ and a human equivalent NOAEL of 0.086 mg/$m^3$. Applying the combined uncertainty factor of 100 results in a subchronic screening level of 0.86 ug/$m^3$.

Molinate is used on rice during a discrete time period each year. As a result, chronic exposure to molinate in the ambient air does not occur. Neither DPR nor U.S. EPA evaluated chronic inhalation exposure. U.S. EPA retained the FQPA safety factor of 10X. U.S. EPA classified molinate as having suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenicity.

Naled (Dichlorvos/DDVP)
DPR completed a RCD on Naled in 1999 and an addendum in 2001. In the RCD, acute exposure, including inhalation, was evaluated using an estimated NOAEL of 2.5 mg/kg, based on neurotoxic effects in an oral rat Functional Observational Battery study. Subchronic exposure was evaluated using a NOAEL of 2.5 mg/kg (in terms of absorbed dose and amortized for daily exposure) for cholinesterase inhibition in a subchronic dermal rat study. Chronic exposure was evaluated using a NOAEL of 0.2 mg/kg for brain cholinesterase inhibition in a chronic rat study. This would result in acute, subchronic, and chronic screening levels of 43 ug/m$^3$, 43 ug/m$^3$, and 3.4 ug/m$^3$, respectively.

In 2002, U.S. EPA released an RED on naled. In the RED, U.S. EPA used a NOAEL of 0.23 mg/m$^3$ for cholinesterase inhibition from a 13-week rat inhalation study to evaluate inhalation exposure of any duration. In this study, exposure took place 6 hours per day, 5 days per week. Adjusting for the 6-hour exposure and breathing rate differences results in a human equivalent NOAEL of 92 ug/m$^3$. Applying an uncertainty factor of 100 results in an acute screening level of 0.92 ug/m$^3$. Adjusting for exposures 5 days per week results in subchronic and chronic screening levels of 0.65 ug/m$^3$. U.S. EPA assigned a cancer classification of E, evidence of non-carcinogenicity and assigned a FQPA factor of 1X. Since the screening levels based on the RED are derived from an inhalation study, they were used here.

Norflurazon
U.S. EPA completed an RED in 1996 and a TRED in 2002. Neither document addressed inhalation exposure; therefore, the screening levels are set based on oral toxicity values. The TRED evaluated acute dietary exposure using the NOAEL of 10 mg/kg/day for increased skeletal variations in an oral rabbit developmental toxicity study. Using this NOAEL and a combined uncertainty factor of 100 results in an acute screening level of 170 ug/m$^3$. The TRED evaluated chronic dietary exposure using the NOAEL of 1.5 mg/kg/day for liver toxicity in a 6-month oral dog study. Using this NOAEL and a combined uncertainty factor of 100 results in chronic screening level of 26 ug/m$^3$. The TRED did not evaluate intermediate-term or subchronic exposure; therefore, the chronic screening level of 26 ug/m$^3$ was also used as the subchronic screening level. U.S. EPA has classified norflurazon as a possible human carcinogen based on liver tumors, but did not recommend a quantitative risk assessment. U.S. EPA assigned an FQPA factor of 3X only for acute exposure of females 13-50 years of age, while assigning an FQPA factor of 1X for all other acute exposures and all chronic exposures.

Oryzalin
U.S. EPA completed an RED in 1994 and published a risk assessment in 2003, which will form the basis for a TRED. In the risk assessment, U.S. EPA specified evaluating short-term inhalation using the NOAEL of 25 mg/kg (maternal toxicity in an oral rabbit developmental toxicity study) and applying an uncertainty factor of 100X. This would result in an acute screening level of 420 ug/m$^3$. U.S. EPA specified evaluating intermediate-term and long-term inhalation using the NOAEL of 13.82 mg/kg (decreased weight gain, hematological effects, and thyroid effects in a chronic rat feeding study) and applying an uncertainty factor of 100X. This would result in a subchronic and chronic

screening level of 230 ug/m$^3$. U.S. EPA classified oryzalin as likely to be carcinogenic to humans and assigned a slope factor of 0.00779 (mg/kg/day)$^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

Oxyfluorfen

U.S. EPA completed an RED in 2002. In the RED, U.S. EPA specified evaluating short-term inhalation using the NOAEL of 30 mg/kg (maternal toxicity in an oral rabbit developmental toxicity study) and applying an uncertainty factor of 100X. This would result in an acute screening level of 510 ug/m$^3$. U.S. EPA specified evaluating intermediate-term inhalation using the LOAEL of 32 mg/kg (liver toxicity a subchronic mouse feeding study), and applied an uncertainty factor of 3X to derive a NOAEL of 10.67 mg/kg. Applying an uncertainty factor of 100X results in a subchronic screening level of 180 ug/m$^3$. U.S. EPA specified evaluating long-term inhalation using the NOAEL of 3.0 mg/kg (liver toxicity in chronic dog and mouse studies). Applying an uncertainty factor of 100X would result in a chronic screening level of 51 ug/m$^3$. U.S. EPA classified oxyfluorfen as a possible human carcinogen based on liver tumors in mice and assigned a slope factor of 0.0732 (mg/kg/day)$^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

Permethrin

U.S. EPA completed an RED on permethrin in 2005. In the RED, U.S. EPA specified using the NOAEL of 42 mg/m$^3$ (neurotoxicity in a 15 day rat inhalation study) to evaluate short-term, intermediate-term, and long term-inhalation exposure. U.S. EPA applied an uncertainty factor of 100X. The study exposed animals 6 hours a day for an average of 3.75 days a week. Adjusting for exposure for 24 hours and differences in breathing rates results in a human equivalent acute NOAEL of 16.8 mg/m$^3$. Applying the uncertainty factor of 100X results in an acute screening level of 168 ug/m$^3$. Adjusting this value for exposure 3.75 days per week results in subchronic and chronic screening levels of 90 ug/m$^3$. U.S. EPA classified permethrin as likely to be carcinogenic to humans based on lung tumors in mice and derived a slope factor of 0.00957 (mg/kg/day)$^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

Phosmet

U.S. EPA completed an IRED for Phosmet in 2001. In the IRED and supporting risk assessment, U.S. EPA specified evaluating short-term inhalation using the NOAEL of 4.5 mg/kg (cholinesterase inhibition an acute rat oral neurotoxicity study) and applying an uncertainty factor of 100X. This would result in an acute screening level of 77 ug/m$^3$. U.S. EPA specified evaluating intermediate-term inhalation using the NOAEL of 1.5 mg/kg (cholinesterase inhibition in an oral subchronic rat neurotoxicity study) and applying an uncertainty factor of 100X. This would result in a subchronic screening level of 26 ug/m$^3$. U.S. EPA specified evaluating long-term inhalation using the NOAEL of 1.1 mg/kg (cholinesterase inhibition in an oral rat chronic toxicity study) and applying an uncertainty factor of 100X. This would result in a chronic screening level of 18 ug/m$^3$. U.S. EPA classified phosmet as having suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential. U.S. EPA assigned an FQPA factor of 1X.

Propanil

U.S. EPA completed an RED on propanil in 2002. In the RED, U.S. EPA specified evaluating inhalation for all time periods using the LOAEL of 9 mg/kg for increased methemoglobin, increased spleen weight, an increased seminal vesicles and prostates in males in a chronic oral rat study. U.S. EPA applied an uncertainty factor of 3X to estimate a NOAEL of 3 mg/kg. U.S. EPA applied an uncertainty factor of 100 to address intraspecies and interspecies variation, resulting in an acute, subchronic, and chronic screening level of 51 ug/$m^3$. U.S. EPA classified propanil has having suggestive evidence of carcinogenicity but not sufficient to assess human carcinogenic potential. U.S. EPA assigned a FQPA factor of 1X.

Propargite

U.S. EPA completed an RED on propargite in 2001. In the RED, U.S. EPA used a LOAEL of 310 mg/$m^3$ (mortality in a 4-hour rat inhalation study) to evaluate short-term, intermediate term, and long-term inhalation. The RED specified a total uncertainty factor of 1000X. This included a 10X factor due to the lack of a NOAEL, the severity of effects at the lowest dose tested, and the 4-hour exposure duration. Adjusting for differences in human and rat breathing rates and using this 1000X uncertainty factor would result in a screening level of 496 ug/$m^3$ for all timeframes. U.S. EPA has classified propargite as a probable human carcinogen based on intestinal tumors in rats. The RED specified a cancer potency factor of 0.0033 $(mg/kg/day)^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

DPR completed an RCD on propargite in 2004. In the RCD, DPR derived an acute RfC of 14 ug/$m^3$ based on maternal toxicity at 2 mg/kg in a rabbit developmental, an oral absorption rate of 40%, and an uncertainty factor of 100. DPR derived a chronic RfC of 26 ug/m3 based decreased body weights and decreased food consumption at 3.8 mg/kg in a chronic rat study, an oral absorption rate of 40%, and an uncertainty factor of 100. The seeming incongruity of a chronic NOAEL higher than the acute NOAEL is probably the result of dose selection. Since the current process is intended to develop screening levels, a conservative approach would be to use the lower acute value to examine all time periods. For propargite, the screening level of 14 ug/$m^3$, derived from the acute RfC was used for evaluating acute, subchronic, and chronic exposures. In the RCD, DPR calculated cancer potency values in a range of 0.0059 to 0.026 $(mg/kg/day)^{-1}$.

SSS-tributyltriphosphorotrithioate (DEF)

In 1999, DPR completed an RCD on DEF that was peer reviewed by the SRP. The RCD derived an acute and subchronic REL of 8.8 ug/$m^3$ based on cholinesterase inhibition and clinical signs in a 90-day rat inhalation study. Since DEF is not used year round, chronic inhalation exposure was not evaluated. DPR derived a carcinogenicity potency factor of 0.084 $(mg/kg/day)^{-1}$. In a 1999 IRED, U.S. EPA specified the use of the same study to evaluate short-term and intermediate term exposure. The RED also did not evaluate long-term inhalation exposure. U.S. EPA classified DEF as a likely high dose/not likely low dose carcinogen and recommended that a potency factor not be calculated. U.S. EPA retained the FQPA factor of 10X.

Simazine

U.S. EPA is scheduled to release an IRED on simazine in 2006. In 2005, U.S. EPA released a revised risk assessment that will form the basis for the IRED. In the assessment, U.S. EPA recommended evaluating short-term inhalation exposure using a NOAEL of 6.25 mg/kg from a 28-day oral pubertal study in rats. This NOAEL results in an acute screening level of 110 ug/m$^3$. In the assessment, U.S. EPA recommended evaluating intermediate-term and long-term inhalation exposure using a NOAEL of 1.8 mg/kg from an oral 6-month luteinizing hormone surge study in rats. This NOAEL results in a subchronic and chronic screening level of 31 ug/m$^3$. U.S. EPA classifies simazine as a possible human carcinogen; however, a change in classification to not likely to be carcinogenic to humans is pending. U.S. EPA assigned an FQPA factor of 3X.

Sulfur

Sulfur is found in a variety of fungicides and is also available as a powder. It has a low oral toxicity. However, it can cause skin, eye, and respiratory irritation. Inhalation exposure to large amounts of sulfur dust can cause inflammation of the nasal mucosa, bronchitis, cough, and expectoration.

There was insufficient information to derive screening levels for sulfur.

Thiobencarb

U.S. EPA completed an RED in 1997. Since the acute inhalation toxicity was low, the RED did not assess inhalation risk. Short-term toxicity was addressed with a NOAEL of 25 mg/kg for decreased skeletal ossification in a rat oral developmental toxicity study. Intermediate-term toxicity was addressed with a NOAEL of 2 mg/kg for liver and kidney effects in an oral rat subchronic toxicity study and an oral rat multigeneration study. Long-term dietary toxicity was addressed with a NOAEL of 1 mg/kg for decreased body weight and changes in clinical chemistry in a two-year oral rat chronic toxicity study. In all three scenarios, U.S. EPA used a total uncertainty factor of 100X. This would result in acute, subchronic, and chronic screening levels of 425 ug/m$^3$, 34 ug/m$^3$, and 17 ug/m$^3$, respectively. U.S. EPA assigned a carcinogenicity classification of D, not classifiable as to carcinogenicity. U.S. EPA did not retain the FQPA safety factor.

Trifluralin

U.S. EPA completed an IRED on trifluralin in 2004. The IRED assessed short-term inhalation was assessed using a NOAEL of 300 mg/m$^3$ for methemoglobinemia and clinical signs in a 30-day rat inhalation study in which exposure took place 6 hours a day, 5 days a week. The amortized 24-hour NOAEL would be 75 mg/m$^3$. Adjusting for differences in rat and human breathing rats and applying a total uncertainty factor of 100X results in an acute screening level of 1,200 ug/m$^3$. Intermediate-term inhalation was assessed using a NOAEL of 10 mg/kg for kidney and urine chemistry effects in an oral rat urinalysis study. This would convert to a subchronic screening level of 170 ug/m$^3$. Long-term inhalation was assessed using a NOAEL of 2.4 mg/kg for decreased body weight, decreased red blood cells, and other hematological effects in an oral chronic dog study. This would convert to a chronic screening level of 41 ug/m$^3$. U.S. EPA classified

trifluralin as a C, possible human carcinogen and derived a cancer potency value of 0.0058 $(mg/kg/day)^{-1}$. U.S. EPA assigned an FQPA factor of 1X.

Xylenes

OEHHA established acute and chronic RELs for xylenes. OEHHA set an acute 1-hour REL of 22 $mg/m^3$ based on a derived 1-hour NOAEL 220 $mg/m^3$ for eye and respiratory irritation in human volunteers and an uncertainty factor of 10 X for human variation. The 1-hour NOAEL was extrapolated from a 30-minute NOAEL of 430 $mg/m^3$. Using this same relationship, a 24-hour NOAEL of 9.0 $mg/m^3$ can be calculated. Applying the 10 X uncertainty factor results in 24-hour acute screening level of 900 $ug/m^3$. OEHHA set a chronic REL of 700 $ug/m^3$ based on a LOAEL for central nervous system effects and eye and respiratory irritation identified in a study of exposed factory workers (after adjusting for 24 hours per day, 7 days a week exposure). OEHHA used an uncertainty factor of 3 X to derive a NOAEL from a LOAEL and an uncertainty factor of 10 X to address human variation. The chronic REL derived by OEHHA was used as the subchronic and chronic screening level. IRIS classifies xylenes as having inadequate evidence for an assessment of the carcinogenic potential of xylene.

# APPENDIX G

Raw data

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 613 | BEN | 1 | 1/3/06 | 1/4/06 | 10:46 | 9:35 | 15.59 | 14.73 | 15.16 | 1366 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 610 | CHA | 1 | 1/3/06 | 1/4/06 | 11:19 | 10:26 | 15.3 | 14.16 | 14.73 | 1384 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 615 | MAR | 1 | 1/3/06 | 1/4/06 | 9:17 | 8:53 | 14.86 | 15.54 | 15.20 | 1376 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 616 | BEN | 2 | 1/4/06 | 1/5/06 | 9:50 | 9:43 | 15.31 | 15.69 | 15.50 | 1437 | ND | ND | ND | 1.08 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 604 | CHA | 2 | 1/4/06 | 1/5/06 | 10:32 | 10:20 | 15.09 | 14.89 | 14.99 | 1428 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 617 | MAR | 2 | 1/4/06 | 1/5/06 | 9:05 | 9:06 | 14.89 | 14.56 | 14.73 | 1441 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 601 | BEN | 3 | 1/5/06 | 1/6/06 | 9:53 | 9:25 | 14.85 | 15 | 14.93 | 1412 | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 602 | CHA | 3 | 1/5/06 | 1/6/06 | 10:26 | 9:51 | 14.75 | 14.8 | 14.78 | 1404 | ND | ND | ND | 1.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 606 | MAR | 3 | 1/5/06 | 1/6/06 | 9:16 | 9:02 | 15.24 | 15.15 | 15.20 | 1426 | ND | ND | ND | 2.24 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 580 | BEN | 1 | 1/10/06 | 1/11/06 | 9:44 | 9:35 | 15.47 | 14.42 | 14.95 | 1430 | ND | ND | ND | 2.0 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 585 | CHA | 1 | 1/10/06 | 1/11/06 | 10:28 | 10:09 | 14.88 | 18.35 | 16.62 | 1422 | ND | trace | ND | 1.76 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 581 | MAR | 1 | 1/10/06 | 1/11/06 | 9:02 | 8:50 | 15.06 | 9.8 | 12.43 | 1428 | ND | ND | ND | 1.51 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 588 | BEN | 2 | 1/11/06 | 1/12/06 | 9:38 | 9:37 | 15.17 | 15.52 | 15.35 | 1439 | ND | ND | ND | 2.16 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 587 | CHA | 2 | 1/11/06 | 1/12/06 | 10:13 | 10:19 | 15.02 | 15.31 | 15.17 | 1446 | ND | ND | ND | 2.29 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 584 | MAR | 2 | 1/11/06 | 1/12/06 | 8:58 | 8:41 | 15.19 | 13.79 | 14.49 | 1423 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 625 | BEN | 3 | 1/12/06 | 1/13/06 | 9:42 | 9:20 | 14.93 | 14.77 | 14.85 | 1417 | ND | ND | ND | 1.47 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 621 | CHA | 3 | 1/12/06 | 1/13/06 | 10:24 | 10:10 | 15.14 | 13.02 | 14.08 | 1428 | ND | ND | ND | 1.49 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 624 | MAR | 3 | 1/12/06 | 1/13/06 | 8:47 | 8:53 | 14.57 | 14.83 | 14.70 | 1446 | ND | ND | ND | 1.38 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 634 | BEN | 1 | 1/16/06 | 1/17/06 | 8:50 | 8:52 | 15.12 | 13.78 | 14.45 | 1442 | ND | ND | ND | 2.01 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 620 | CHA | 1 | 1/16/06 | 1/17/06 | 9:18 | 9:35 | 15.18 | 17.19 | 16.19 | 1457 | ND | ND | ND | 2.3 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 638 | MAR | 1 | 1/16/06 | 1/17/06 | 8:22 | 8:16 | 15.5 | 14.18 | 14.84 | 1434 | ND | ND | ND | 1.92 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 529 | BEN | 2 | 1/17/06 | 1/18/06 | 8:57 | 8:59 | 15.2 | 15.39 | 15.30 | 1442 | ND | ND | ND | 3.31 | ND | ND | ND | ND | trace | ND | ND | trace | 0.315 |
| 632 | CHA | 2 | 1/17/06 | 1/18/06 | 9:37 | 9:39 | 15.05 | 14.9 | 14.98 | 1438 | ND | ND | ND | 2.92 | ND | ND | ND | ND | trace | ND | ND | trace | 0.291 |
| 525 | MAR | 2 | 1/17/06 | 1/18/06 | 8:23 | 8:26 | 14.84 | 15.06 | 14.95 | 1444 | ND | ND | ND | 2.52 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 522 | BEN | 3 | 1/18/06 | 1/19/06 | 9:10 | 8:43 | 15.27 | 15.11 | 15.19 | 1413 | ND | ND | ND | 1.65 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 523 | CHA | 3 | 1/18/06 | 1/19/06 | 9:45 | 9:14 | 15.14 | 14.73 | 14.94 | 1409 | ND | ND | ND | 1.43 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 636 | MAR | 3 | 1/18/06 | 1/19/06 | 8:31 | 8:20 | 14.94 | 14.7 | 14.82 | 1429 | ND | ND | ND | 1.63 | ND | ND | ND | ND | ND | ND | ND | trace | trace |
| 536 | BEN | 1 | 1/23/06 | 1/24/06 | 8:59 | 8:50 | 15.09 | 13.58 | 14.335 | 1432 | ND | ND | ND | 1.46 | ND | ND | ND | ND | trace | ND | ND | ND | 2.01 |
| 537 | CHA | 1 | 1/23/06 | 1/24/06 | 9:23 | 9:21 | 15.05 | 17.19 | 16.12 | 1436 | ND | ND | ND | 2.36 | ND | ND | ND | ND | ND | ND | ND | ND | 0.25 |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 533 | MAR | 1 | 1/23/06 | 1/24/06 | 8:33 | 8:23 | 15.02 | 13.87 | 14.445 | 1431 | ND | ND | ND | 1.81 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 539 | BEN | 2 | 1/24/06 | 1/25/06 | 8:54 | 9:00 | 14.88 | 14.94 | 14.91 | 1446 | ND | ND | ND | 1.74 | ND | ND | ND | ND | trace | ND | ND | trace | 0.924 |
| 555 | CHA | 2 | 1/24/06 | 1/25/06 | 9:27 | 9:33 | 15.16 | 14.85 | 15.005 | 1446 | ND | ND | ND | 1.62 | ND | ND | ND | ND | Trace | ND | ND | trace | 0.409 |
| 530 | MAR | 2 | 1/24/06 | 1/25/06 | 8:25 | 8:34 | 14.94 | 14.55 | 14.745 | 1448 | ND | ND | ND | 2.38 | ND | ND | ND | ND | Trace | ND | ND | trace | 0.441 |
| 557 | BEN | 3 | 1/25/06 | 1/26/06 | 9:08 | 8:40 | 15.14 | 14.8 | 14.97 | 1413 | ND | trace | ND | 1.96 | ND | ND | ND | ND | Trace | ND | ND | trace | 0.741 |
| 551 | CHA | 3 | 1/25/06 | 1/26/06 | 9:37 | 9:16 | 15.05 | 14.77 | 14.91 | 1420 | ND | trace | ND | 2.09 | ND | ND | ND | ND | Trace | ND | ND | trace | 0.367 |
| 556 | MAR | 3 | 1/25/06 | 1/26/06 | 8:37 | 8:22 | 15.34 | 15.03 | 15.185 | 1425 | ND | trace | ND | 2.23 | ND | ND | ND | ND | Trace | ND | ND | trace | 0.405 |
| 506 | BEN | 1 | 1/29/06 | 1/30/06 | 8:52 | 8:53 | 16.4 | 14.8 | 15.6 | 1441 | ND | ND | ND | 1.02 | ND | ND | ND | ND | trace | ND | ND | ND | 0.415 |
| 500 | CHA | 1 | 1/29/06 | 1/30/06 | 9:11 | 9:23 | 14.68 | 15.66 | 15.17 | 1452 | ND | ND | ND | 1.26 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 554 | MAR | 1 | 1/29/06 | 1/30/06 | 8:31 | 8:20 | 16.69 | 14.88 | 15.785 | 1429 | ND | ND | ND | 1.11 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 503 | BEN | 2 | 1/30/06 | 1/31/06 | 8:58 | 8:50 | 15.02 | 14.97 | 14.995 | 1432 | ND | ND | ND | 1.27 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 508 | CHA | 2 | 1/30/06 | 1/31/06 | 9:27 | 9:19 | 15.04 | 15.18 | 15.11 | 1433 | ND | ND | ND | 1.37 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 507 | MAR | 2 | 1/30/06 | 1/31/06 | 8:25 | 8:24 | 15.26 | 14.97 | 15.115 | 1439 | ND | ND | ND | 1.23 | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 593 | BEN | 3 | 1/31/06 | 2/1/06 | 8:57 | 8:57 | 15.07 | 14.83 | 14.95 | 1420 | ND | ND | ND | 1.16 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 597 | CHA | 3 | 1/31/06 | 2/1/06 | 9:24 | 9:02 | 15.21 | 15.17 | 15.19 | 1419 | ND | ND | ND | 1.42 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 591 | MAR | 3 | 1/31/06 | 2/1/06 | 8:28 | 8:16 | 15.35 | 15.05 | 15.2 | 1429 | ND | ND | ND | 1.1 | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 594 | BEN | 1 | 2/8/06 | 2/9/06 | 8:41 | 8:51 | 15.02 | 13.95 | 14.49 | 1451 | ND | ND | ND | 1.02 | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 562 | CHA | 1 | 2/8/06 | 2/9/06 | 9:08 | 9:23 | 15.5 | 14.52 | 15.01 | 1454 | ND | ND | ND | 1.05 | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 592 | MAR | 1 | 2/8/06 | 2/9/06 | 8:13 | 8:17 | 15.25 | 14.05 | 14.65 | 1444 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 566 | BEN | 2 | 2/9/06 | 2/10/06 | 8:55 | 8:45 | 15.09 | 15.04 | 15.07 | 1431 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 514 | CHA | 2 | 2/9/06 | 2/10/06 | 9:27 | 9:15 | 15.35 | 15.1 | 15.23 | 1429 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 567 | MAR | 2 | 2/9/06 | 2/10/06 | 8:27 | 8:17 | 14.94 | 14.07 | 14.51 | 1429 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 519 | BEN | 3 | 2/10/06 | 2/11/06 | 8:50 | 8:29 | 15.39 | 14.97 | 15.18 | 1419 | ND | ND | ND | trace | ND | ND | ND | trace | Trace | ND | ND | trace | trace |
| 512 | CHA | 3 | 2/10/06 | 2/11/06 | 9:23 | 9:14 | 15.33 | 14.88 | 15.11 | 1436 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 510 | MAR | 3 | 2/10/06 | 2/11/06 | 8:23 | 8:10 | 15.34 | 15.11 | 15.23 | 1427 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 548 | BEN | 1 | 2/15/06 | 2/16/06 | 8:55 | 8:51 | 15.18 | 13.91 | 14.55 | 1436 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 544 | CHA | 1 | 2/15/06 | 2/16/06 | 9:31 | 9:22 | 15.46 | 12.53 | 14.00 | 1431 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 547 | MAR | 1 | 2/15/06 | 2/16/06 | 8:28 | 8:22 | 15.02 | 13.68 | 14.35 | 1434 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 549 | BEN | 2 | 2/16/06 | 2/17/06 | 8:55 | 8:49 | 15.18 | 15.15 | 15.17 | 1434 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 516 | CHA | 2 | 2/16/06 | 2/17/06 | 9:28 | 9:29 | 15.02 | 14.92 | 14.97 | 1443 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | ND |
| 540 | MAR | 2 | 2/16/06 | 2/17/06 | 8:27 | 8:18 | 14.96 | 15.03 | 15.00 | 1431 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 571 | BEN | 3 | 2/17/06 | 2/18/06 | 8:53 | 8:25 | 15.28 | 15.01 | 15.15 | 1412 | ND | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 576 | CHA | 3 | 2/17/06 | 2/18/06 | 9:34 | 8:55 | 14.92 | 15.11 | 15.02 | 1401 | ND | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 577 | MAR | 3 | 2/17/06 | 2/18/06 | 8:22 | 8:08 | 15.35 | 15.02 | 15.19 | 1425 | ND | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 700 | BEN | 1 | 2/21/06 | 2/22/06 | 8:45 | 8:45 | 15.35 | 14.09 | 14.72 | 1441 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 705 | CHA | 1 | 2/21/06 | 2/22/06 | 9:25 | 9:15 | 15.15 | 13.07 | 14.11 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 688 | MAR | 1 | 2/21/06 | 2/22/06 | 8:17 | 8:19 | 15.46 | 14.2 | 14.83 | 1443 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 681 | BEN | 2 | 2/22/06 | 2/23/06 | 8:51 | 8:53 | 15.05 | 14.98 | 15.02 | 1443 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 709 | CHA | 2 | 2/22/06 | 2/23/06 | 9:19 | 9:21 | 15.47 | 15.66 | 15.57 | 1442 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | ND |
| 666 | MAR | 2 | 2/22/06 | 2/23/06 | 8:22 | 8:23 | 14.85 | 14.2 | 14.53 | 1441 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 573 | BEN | 3 | 2/23/06 | 2/24/06 | 8:52 | 8:42 | 15.27 | 14.94 | 15.11 | 1426 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | ND |
| 570 | CHA | 3 | 2/23/06 | 2/24/06 | 9:25 | 9:04 | 15.35 | 15.05 | 15.20 | 1420 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | ND |
| 579 | MAR | 3 | 2/23/06 | 2/24/06 | 8:29 | 8:23 | 15.04 | 14.77 | 14.91 | 1435 | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 706 | BEN | 1 | 2/27/06 | 2/28/06 | 8:51 | 8:48 | 15.27 | 14.14 | 14.71 | 1437 | ND | trace | ND | 2.89 | ND | ND | ND | trace | ND | ND | ND | trace | trace |
| 693 | CHA | 1 | 2/27/06 | 2/28/06 | 9:13 | 9:30 | 15.05 | 14.72 | 14.89 | 1456 | ND | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 674 | MAR | 1 | 2/27/06 | 2/28/06 | 8:23 | 8:17 | 15.12 | 14.03 | 14.58 | 1435 | ND | trace | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND | trace |
| 682 | BEN | 2 | 2/28/06 | 3/1/06 | 8:56 | 8:50 | 14.81 | 14.75 | 14.78 | 1431 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 672 | CHA | 2 | 2/28/06 | 3/1/06 | 9:35 | 9:26 | 15.03 | 15.03 | 15.03 | 1431 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 702 | MAR | 2 | 2/28/06 | 3/1/06 | 8:22 | 8:19 | 15.11 | 15.06 | 15.09 | 1437 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 687 | BEN | 3 | 3/1/06 | 3/2/06 | 8:52 | 8:42 | 15.37 | 14.82 | 15.10 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 673 | CHA | 3 | 3/1/06 | 3/2/06 | 9:29 | 9:19 | 15.16 | 14.97 | 15.07 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 677 | MAR | 3 | 3/1/06 | 3/2/06 | 8:25 | 8:15 | 15.26 | 14.76 | 15.01 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 758 | BEN | 1 | 3/5/06 | 3/6/06 | 8:41 | 8:54 | 15.04 | 13.99 | 14.52 | 1453 | ND | trace | trace | 1.2 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 757 | CHA | 1 | 3/5/06 | 3/6/06 | 9:04 | 9:21 | 14.93 | 13.51 | 14.22 | 1457 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 752 | MAR | 1 | 3/5/06 | 3/6/06 | 8:17 | 8:24 | 15.14 | 14.41 | 14.78 | 1447 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 762 | BEN | 2 | 3/6/06 | 3/7/06 | 9:00 | 8:36 | 15.5 | 15.44 | 15.47 | 1417 | ND | ND | ND | 1.25 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 742 | CHA | 2 | 3/6/06 | 3/7/06 | 9:25 | 9:14 | 15.29 | 15.25 | 15.27 | 1429 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 675 | MAR | 2 | 3/6/06 | 3/7/06 | 8:29 | 8:10 | 15.14 | 14.75 | 14.95 | 1421 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 701 | BEN | 3 | 3/7/06 | 3/8/06 | 8:40 | 8:32 | 15.11 | 14.68 | 14.90 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 685 | CHA | 3 | 3/7/06 | 3/8/06 | 9:16 | 9:06 | 15.4 | 15.08 | 15.24 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 698 | MAR | 3 | 3/7/06 | 3/8/06 | 8:14 | 8:15 | 15.04 | 14.74 | 14.89 | 1441 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 707 | BEN | 1 | 3/12/06 | 3/13/06 | 8:55 | 8:43 | 14.95 | 13.61 | 14.28 | 1428 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 763 | CHA | 1 | 3/12/06 | 3/13/06 | 9:18 | 9:10 | 15.09 | 13.12 | 14.105 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 755 | MAR | 1 | 3/12/06 | 3/13/06 | 8:20 | 8:12 | 15.26 | 13.91 | 14.585 | 1433 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 751 | BEN | 2 | 3/13/06 | 3/14/06 | 8:46 | 8:42 | 15.08 | 15.05 | 15.065 | 1436 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 746 | CHA | 2 | 3/13/06 | 3/14/06 | 9:12 | 9:05 | 15.07 | 15.11 | 15.09 | 1433 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 744 | MAR | 2 | 3/13/06 | 3/14/06 | 8:16 | 8:09 | 15.45 | 15.37 | 15.41 | 1434 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 722 | BEN | 3 | 3/14/06 | 3/15/06 | 8:45 | 8:34 | 15.18 | 14.94 | 15.06 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 725 | CHA | 3 | 3/14/06 | 3/15/06 | 9:08 | 8:57 | 15.29 | 14.87 | 15.08 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 750 | MAR | 3 | 3/14/06 | 3/15/06 | 8:12 | 8:17 | 15.36 | 14.54 | 14.95 | 1446 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 729 | BEN | 1 | 3/22/06 | 3/23/06 | 8:48 | 8:59 | 14.8 | 13.63 | 14.215 | 1452 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 732 | CHA | 1 | 3/22/06 | 3/23/06 | 9:17 | 9:25 | 15.29 | 13.45 | 14.37 | 1448 | ND | ND | trace | 1.7 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 736 | MAR | 1 | 3/22/06 | 3/23/06 | 8:25 | 8:25 | 15.43 | 14.08 | 14.755 | 1440 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 745 | BEN | 2 | 3/23/06 | 3/24/06 | 9:02 | 8:49 | 15.25 | 15.19 | 15.22 | 1427 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 740 | CHA | 2 | 3/23/06 | 3/24/06 | 9:28 | 9:19 | 15.08 | 15.25 | 15.165 | 1432 | ND | ND | trace | 2.73 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 723 | MAR | 2 | 3/23/06 | 3/24/06 | 8:29 | 8:17 | 15.34 | 14.94 | 15.14 | 1427 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 770 | BEN | 3 | 3/24/06 | 3/25/06 | 8:54 | 8:39 | 15.23 | 14.96 | 15.095 | 1426 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 811 | CHA | 3 | 3/24/06 | 3/25/06 | 9:24 | 9:12 | 15.08 | 15.1 | 15.09 | 1423 | ND | trace | trace | 2.61 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 779 | MAR | 3 | 3/24/06 | 3/25/06 | 8:21 | 8:12 | 15.16 | 15.86 | 15.51 | 1432 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 767 | BEN | 1 | 3/29/06 | 3/30/06 | 8:45 | 8:51 | 15.19 | 13.84 | 14.515 | 1446 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 786 | CHA | 1 | 3/29/06 | 3/30/06 | 9:07 | 9:24 | 15.05 | 12.62 | 13.835 | 1458 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 796 | MAR | 1 | 3/29/06 | 3/30/06 | 8:20 | 8:15 | 15.07 | 13.73 | 14.4 | 1435 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 794 | BEN | 2 | 3/30/06 | 3/31/06 | 8:56 | 8:55 | 15.1 | 15.09 | 15.095 | 1440 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 782 | CHA | 2 | 3/30/06 | 3/31/06 | 9:29 | 9:23 | 14.95 | 15.22 | 15.085 | 1435 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 788 | MAR | 2 | 3/30/06 | 3/31/06 | 8:28 | 8:26 | 15.02 | 15.1 | 15.06 | 1438 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 785 | BEN | 3 | 3/31/06 | 4/1/06 | 9:00 | 9:01 | 15.22 | 15.27 | 15.245 | 1441 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 806 | CHA | 3 | 3/31/06 | 4/1/06 | 9:28 | 9:23 | 15.26 | 15.32 | 15.29 | 1435 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 800 | MAR | 3 | 3/31/06 | 4/1/06 | 8:31 | 8:21 | 14.96 | 14.6 | 14.78 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 780 | BEN | 1 | 4/4/06 | 4/5/06 | 8:56 | 9:19 | 15.13 | 13.95 | 14.54 | 1463 | ND | ND | ND | Trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 802 | CHA | 1 | 4/4/06 | 4/5/06 | 9:20 | 9:48 | 15.13 | 13.53 | 14.33 | 1468 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 807 | MAR | 1 | 4/4/06 | 4/5/06 | 8:31 | 8:46 | 15.01 | 14.74 | 14.875 | 1455 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 777 | BEN | 2 | 4/5/06 | 4/6/06 | 9:22 | 9:02 | 15.12 | 15.1 | 15.11 | 1420 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 812 | CHA | 2 | 4/5/06 | 4/6/06 | 9:52 | 9:43 | 15.06 | 14.59 | 14.825 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 774 | MAR | 2 | 4/5/06 | 4/6/06 | 8:51 | 8:26 | 14.99 | 14.41 | 14.7 | 1415 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 810 | BEN | 3 | 4/6/06 | 4/7/06 | 9:08 | 8:58 | 15.17 | 14.85 | 15.01 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 801 | CHA | 3 | 4/6/06 | 4/7/06 | 9:47 | 9:37 | 14.84 | 14.43 | 14.635 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 789 | MAR | 3 | 4/6/06 | 4/7/06 | 8:31 | 8:21 | 14.81 | 14.35 | 14.58 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 861 | CHA | 1 | 4/10/06 | 4/11/06 | 9:20 | 9:39 | 15.22 | 13.33 | 14.28 | 1459 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 821 | BEN | 1 | 4/10/06 | 4/11/06 | 9:00 | 9:13 | 15.13 | 14.11 | 14.62 | 1453 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 817 | MAR | 1 | 4/10/06 | 4/11/06 | 8:38 | 8:43 | 15.14 | 14.36 | 14.75 | 1444 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 854 | MAR | 2 | 4/11/06 | 4/12/06 | 8:47 | 8:50 | 14.84 | 14.03 | 14.435 | 1444 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 826 | BEN | 2 | 4/11/06 | 4/12/06 | 9:18 | 9:16 | 14.97 | 15.01 | 14.99 | 1439 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 815 | CHA | 2 | 4/11/06 | 4/12/06 | 9:43 | 9:48 | 15.26 | 14.96 | 15.11 | 1445 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 858 | MAR | 3 | 4/12/06 | 4/13/06 | 8:54 | 8:47 | 15.22 | 15.03 | 15.125 | 1431 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 829 | BEN | 3 | 4/12/06 | 4/13/06 | 9:20 | 9:10 | 15.17 | 14.87 | 15.02 | 1430 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 818 | CHA | 3 | 4/12/06 | 4/13/06 | 9:52 | 9:42 | 15.2 | 15.19 | 15.195 | 1430 | ND | trace | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 787 | BEN | 1 | 4/17/06 | 4/18/06 | 8:47 | 9:03 | 15.22 | 11.26 | 13.24 | 1457 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 805 | CHA | 1 | 4/17/06 | 4/18/06 | 9:20 | 9:28 | 15.15 | 12.31 | 13.73 | 1450 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 769 | MAR | 1 | 4/17/06 | 4/18/06 | 8:20 | 8:29 | 15.07 | 13.44 | 14.255 | 1450 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 814 | BEN | 2 | 4/18/06 | 4/19/06 | 9:06 | 8:49 | 15.38 | 13.68 | 14.53 | 1423 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 852 | CHA | 2 | 4/18/06 | 4/19/06 | 9:32 | 9:17 | 15.12 | 14.49 | 14.805 | 1425 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 856 | MAR | 2 | 4/18/06 | 4/19/06 | 8:34 | 8:20 | 15.14 | 14.68 | 14.91 | 1426 | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 839 | BEN | 3 | 4/19/06 | 4/20/06 | 8:53 | 8:50 | 15.34 | 15.53 | 15.435 | 1437 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 823 | CHA | 3 | 4/19/06 | 4/20/06 | 9:23 | 9:13 | 14.9 | 15.08 | 14.99 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 825 | MAR | 3 | 4/19/06 | 4/20/06 | 8:25 | 8:23 | 14.92 | 15.05 | 14.985 | 1438 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 841 | MAR | 1 | 4/26/06 | 4/27/06 | 8:22 | 8:23 | 14.97 | 13.71 | 14.34 | 1441 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 784 | BEN | 1 | 4/26/06 | 4/27/06 | 8:48 | 8:57 | 15.2 | 13.19 | 14.195 | 1449 | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 845 | CHA | 1 | 4/26/06 | 4/27/06 | 9:08 | 9:28 | 14.98 | 12.91 | 13.945 | 1460 | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 842 | MAR | 2 | 4/27/06 | 4/28/06 | 8:30 | 8:34 | 15.14 | 14.72 | 14.93 | 1444 | ND | ND | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 819 | BEN | 2 | 4/27/06 | 4/28/06 | 9:02 | 9:13 | 15.2 | 15.07 | 15.135 | 1451 | ND | ND | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 843 | CHA | 2 | 4/27/06 | 4/28/06 | 9:30 | 9:44 | 15.08 | 14.82 | 14.95 | 1454 | ND | ND | trace | trace | ND | ND | ND | ND | trace | trace | ND | ND | 0.147 |
| 931 | CHA | 3 | 4/28/06 | 4/29/06 | 9:48 | 9:25 | 15.17 | 15.25 | 15.21 | 1418 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 851 | BEN | 3 | 4/28/06 | 4/29/06 | 9:19 | 8:35 | 15.16 | 15.25 | 15.205 | 1390 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 834 | MAR | 3 | 4/28/06 | 4/29/06 | 8:40 | 8:14 | 15.24 | 15.17 | 15.205 | 1414 | ND | trace | trace | trace | ND | ND | ND | ND | ND | 0.588 | ND | ND | ND |
| 928 | BEN | 1 | 5/2/06 | 5/3/06 | 9:20 | 9:11 | 14.96 | 13.82 | 14.39 | 1431 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 917 | CHA | 1 | 5/2/06 | 5/3/06 | 9:42 | 9:36 | 14.99 | 13.65 | 14.32 | 1435 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 915 | MAR | 1 | 5/2/06 | 5/3/06 | 8:54 | 8:44 | 15.22 | 14.4 | 14.81 | 1430 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 918 | BEN | 2 | 5/3/06 | 5/4/06 | 9:16 | 9:12 | 15.05 | 14.99 | 15.02 | 1437 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 916 | CHA | 2 | 5/3/06 | 5/4/06 | 9:41 | 9:53 | 15.04 | 15.12 | 15.08 | 1452 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 857 | MAR | 2 | 5/3/06 | 5/4/06 | 8:48 | 8:38 | 14.95 | 14.77 | 14.86 | 1430 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 923 | BEN | 3 | 5/4/06 | 5/5/06 | 9:18 | 9:09 | 15.23 | 15.05 | 15.14 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 926 | CHA | 3 | 5/4/06 | 5/5/06 | 9:59 | 9:48 | 15.34 | 15.11 | 15.23 | 1430 | ND | ND | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 914 | MAR | 3 | 5/4/06 | 5/5/06 | 8:44 | 8:34 | 15.04 | 14.72 | 14.88 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 875 | BEN | 1 | 5/8/06 | 5/9/06 | 9:01 | 9:35 | 15.15 | 14.05 | 14.6 | 1474 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 874 | CHA | 1 | 5/8/06 | 5/9/06 | 9:26 | 9:56 | 15.13 | 13.53 | 14.33 | 1470 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 898 | MAR | 1 | 5/8/06 | 5/9/06 | 8:37 | 9:13 | 15.01 | 14.06 | 14.535 | 1477 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 879 | BEN | 2 | 5/9/06 | 5/10/06 | 9:38 | 9:38 | 15.31 | 15.33 | 15.32 | 1440 | ND | ND | trace | ND | ND | ND | ND | ND | ND | 0.517 | ND | ND | ND |
| 929 | CHA | 2 | 5/9/06 | 5/10/06 | 9:59 | 9:56 | 15.15 | 15.23 | 15.19 | 1437 | ND | ND | trace | trace | ND | ND | ND | ND | ND | 0.925 | ND | trace | ND |
| 873 | MAR | 2 | 5/9/06 | 5/10/06 | 9:17 | 9:08 | 15.22 | 15.04 | 15.13 | 1431 | ND | ND | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 892 | BEN | 3 | 5/10/06 | 5/11/06 | 9:40 | 9:29 | 15.39 | 15.19 | 15.29 | 1430 | ND | ND | trace | trace | ND | ND | ND | ND | ND | trace | ND | 0.549 | ND |
| 872 | CHA | 3 | 5/10/06 | 5/11/06 | 9:59 | 9:56 | 15.27 | 15.08 | 15.175 | 1438 | ND | ND | trace | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 904 | MAR | 3 | 5/10/06 | 5/11/06 | 9:13 | 9:03 | 15.12 | 14.78 | 14.95 | 1430 | ND | ND | trace | 1.25 | ND | ND | ND | ND | ND | trace | ND | 0.594 | ND |
| 906 | BEN | 1 | 5/14/06 | 5/15/06 | 8:49 | 8:49 | 14.97 | 13.42 | 14.195 | 1440 | ND | ND | trace | ND | ND | trace | ND | ND | 0.209 | trace | ND | ND | trace |
| 887 | CHA | 1 | 5/14/06 | 5/15/06 | 9:10 | 9:14 | 15.08 | 13.35 | 14.215 | 1444 | ND | ND | trace | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND |
| 868 | MAR | 1 | 5/14/06 | 5/15/06 | 8:21 | 8:17 | 15.36 | 14.25 | 14.805 | 1436 | ND | ND | trace | trace | ND | trace | ND | ND | trace | trace | ND | ND | trace |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | BEN | 2 | 5/15/06 | 5/16/06 | 8:51 | 8:45 | 15.03 | 15.28 | 15.155 | 1434 | ND | trace | trace | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 867 | CHA | 2 | 5/15/06 | 5/16/06 | 9:18 | 9:26 | 15.02 | 15.21 | 15.115 | 1449 | ND | trace | trace | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 908 | MAR | 2 | 5/15/06 | 5/16/06 | 8:23 | 8:20 | 15.26 | 15.02 | 15.14 | 1438 | ND | trace | trace | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 869 | BEN | 3 | 5/16/06 | 5/17/06 | 8:50 | 8:41 | 14.95 | 15.09 | 15.02 | 1431 | ND | trace | trace | trace | ND | ND | ND | ND | ND | 0.646 | ND | trace | ND |
| 901 | CHA | 3 | 5/16/06 | 5/17/06 | 9:33 | 9:17 | 15.23 | 15.18 | 15.205 | 1423 | ND | trace | trace | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 910 | MAR | 3 | 5/16/06 | 5/17/06 | 8:23 | 8:17 | 15.31 | 15.2 | 15.255 | 1434 | ND | trace | trace | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 894 | BEN | 1 | 5/22/06 | 5/23/06 | 9:12 | 9:16 | 15.21 | 15.77 | 15.49 | 1444 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 943 | CHA | 1 | 5/22/06 | 5/23/06 | 9:34 | 9:43 | 15.26 | 13.28 | 14.27 | 1446 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 885 | MAR | 1 | 5/22/06 | 5/23/06 | 8:45 | 8:35 | 14.98 | 13.51 | 14.245 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 955 | BEN | 2 | 5/23/06 | 5/24/06 | 9:21 | 9:11 | 15.1 | 15.52 | 15.31 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 957 | CHA | 2 | 5/23/06 | 5/24/06 | 9:47 | 9:47 | 15.17 | 15.38 | 15.275 | 1440 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | trace |
| 989 | MAR | 2 | 5/23/06 | 5/24/06 | 8:42 | 8:32 | 15.16 | 15.07 | 15.115 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 956 | BEN | 3 | 5/24/06 | 5/25/06 | 9:18 | 9:24 | 15.3 | 15.06 | 15.18 | 1446 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 982 | CHA | 3 | 5/24/06 | 5/25/06 | 9:51 | 9:43 | 15.3 | 15.3 | 15.3 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 870 | MAR | 3 | 5/24/06 | 5/25/06 | 8:37 | 9:01 | 15.36 | 15.11 | 15.235 | 1461 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 958 | BEN | 1 | 5/28/06 | 5/29/06 | 8:50 | 9:46 | 15.13 | 13.5 | 14.315 | 1496 | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | trace |
| 954 | CHA | 1 | 5/28/06 | 5/29/06 | 9:13 | 10:13 | 15.17 | 13.24 | 14.205 | 1501 | ND | ND | ND | trace | ND | ND | ND | ND | 0.145 | ND | ND | ND | 0.136 |
| 983 | MAR | 1 | 5/28/06 | 5/29/06 | 8:21 | 8:32 | 15.27 | 13.87 | 14.57 | 1451 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 981 | BEN | 2 | 5/29/06 | 5/30/06 | 9:52 | 9:55 | 15.34 | 15.29 | 15.315 | 1443 | ND | ND | ND | ND | ND | ND | ND | ND | 0.107 | trace | ND | ND | trace |
| 969 | CHA | 2 | 5/29/06 | 5/30/06 | 10:18 | 10:27 | 15.11 | 15.04 | 15.075 | 1449 | ND | ND | ND | ND | ND | ND | ND | ND | 0.164 | ND | ND | ND | 0.10 |
| 945 | MAR | 2 | 5/29/06 | 5/30/06 | 8:37 | 8:43 | 15.2 | 14.89 | 15.045 | 1446 | ND | ND | ND | trace | ND | ND | ND | ND | trace | ND | ND | ND | trace |
| 959 | BEN | 4 | 5/31/06 | 6/1/06 | 9:58 | 9:19 | 15.24 | 14.57 | 14.905 | 1400 | ND | ND | ND | trace | ND | ND | ND | ND | 0.107 | ND | ND | trace | trace |
| 984 | CHA | 4 | 5/31/06 | 6/1/06 | 9:40 | 8:54 | 15.22 | 15.28 | 15.25 | 1395 | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 946 | MAR | 4 | 5/31/06 | 6/1/06 | 10:26 | 9:46 | 15.21 | 14.35 | 14.78 | 1400 | ND | ND | ND | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 962 | BEN | 1 | 6/7/06 | 6/8/06 | 8:59 | 8:53 | 15.23 | 14.65 | 14.94 | 1434 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1017 | CHA | 1 | 6/7/06 | 6/8/06 | 9:29 | 9:21 | 15.1 | 14 | 14.55 | 1432 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 990 | MAR | 1 | 6/7/06 | 6/8/06 | 8:32 | 8:22 | 15.28 | 14.39 | 14.835 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1030 | BEN | 2 | 6/8/06 | 6/9/06 | 8:58 | 8:48 | 15.3 | 15.16 | 15.23 | 1430 | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1002 | CHA | 2 | 6/8/06 | 6/9/06 | 9:23 | 9:13 | 15.48 | 15.4 | 15.44 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1001 | MAR | 2 | 6/8/06 | 6/9/06 | 8:27 | 8:20 | 15.33 | 15.04 | 15.185 | 1433 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1009 | BEN | 3 | 6/9/06 | 6/10/06 | 8:53 | 8:43 | 15.41 | 15.18 | 15.295 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1008 | CHA | 3 | 6/9/06 | 6/10/06 | 9:17 | 9:10 | 15.23 | 15.03 | 15.13 | 1432 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1013 | MAR | 3 | 6/9/06 | 6/10/06 | 8:23 | 8:13 | 15.23 | 15.08 | 15.155 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1018 | MAR | 1 | 6/14/06 | 6/15/06 | 8:21 | 8:25 | 15.1 | 14.56 | 14.83 | 1445 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1025 | BEN | 1 | 6/14/06 | 6/15/06 | 8:45 | 8:55 | 15.27 | 15.2 | 15.235 | 1450 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1031 | CHA | 1 | 6/14/06 | 6/15/06 | 9:10 | 9:23 | 15.18 | 13.99 | 14.585 | 1453 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1000 | MAR | 2 | 6/15/06 | 6/16/06 | 8:29 | 8:20 | 14.99 | 14.92 | 14.955 | 1431 | ND | trace | ND | trace | ND | ND | ND | ND | trace | ND | ND | trace | trace |
| 1010 | BEN | 2 | 6/15/06 | 6/16/06 | 8:59 | 8:49 | 15.03 | 14.91 | 14.97 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | ND | trace |
| 1029 | CHA | 2 | 6/15/06 | 6/16/06 | 9:28 | 9:16 | 15.19 | 14.94 | 15.065 | 1427 | ND | ND | ND | trace | ND | ND | ND | ND | ND | trace | ND | ND | trace |
| 1056 | MAR | 3 | 6/16/06 | 6/17/06 | 8:25 | 8:21 | 15.21 | 15.13 | 15.17 | 1437 | ND | ND | ND | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 1035 | BEN | 3 | 6/16/06 | 6/17/06 | 8:50 | 8:44 | 15 | 14.8 | 14.9 | 1434 | ND | ND | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | trace |
| 1014 | CHA | 3 | 6/16/06 | 6/17/06 | 9:18 | 9:03 | 15.04 | 14.79 | 14.915 | 1425 | ND | ND | ND | trace | ND | ND | ND | ND | trace | trace | ND | ND | trace |
| 993 | MAR | 1 | 6/20/06 | 6/21/06 | 8:27 | 9:10 | 15.33 | 13.86 | 14.595 | 1488 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 999 | BEN | 1 | 6/20/06 | 6/21/06 | 8:54 | 9:33 | 15.13 | 13.23 | 14.18 | 1479 | ND | ND | ND | trace | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1022 | CHA | 1 | 6/20/06 | 6/21/06 | 9:23 | 10:02 | 14.99 | 13.6 | 14.295 | 1479 | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 1028 | MAR | 2 | 6/21/06 | 6/22/06 | 9:13 | 9:07 | 15.38 | 15.13 | 15.255 | 1433 | trace | ND | ND | trace | ND | ND | ND | ND | 0.15 | trace | ND | ND | 0.282 |
| 1012 | BEN | 2 | 6/21/06 | 6/22/06 | 9:37 | 9:33 | 15 | 15.28 | 15.14 | 1436 | trace | trace | ND | trace | ND | ND | ND | ND | 0.469 | trace | ND | ND | 0.616 |
| 996 | CHA | 2 | 6/21/06 | 6/22/06 | 10:06 | 10:03 | 14.98 | 15.05 | 15.015 | 1437 | trace | ND | ND | trace | ND | ND | ND | ND | 0.311 | trace | ND | ND | 0.205 |
| 1068 | MAR | 3 | 6/22/06 | 6/23/06 | 9:09 | 9:55 | 15.17 | 14.82 | 14.995 | 1486 | trace | trace | ND | trace | ND | ND | ND | ND | 0.247 | trace | ND | trace | 0.227 |
| 1039 | BEN | 3 | 6/22/06 | 6/23/06 | 9:38 | 10:11 | 15.18 | 14.83 | 15.005 | 1474 | trace | trace | ND | trace | ND | ND | ND | ND | 0.771 | trace | ND | ND | 0.818 |
| 1079 | CHA | 3 | 6/22/06 | 6/23/06 | 10:06 | 10:29 | 15.34 | 14.88 | 15.11 | 1462 | trace | trace | ND | trace | ND | ND | trace | ND | 0.25 | trace | ND | trace | trace |
| 1059 | BEN | 1 | 6/27/06 | 6/28/06 | 8:41 | 8:47 | 14.95 | 14.05 | 14.5 | 1446 | ND | trace | ND | ND | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 1048 | CHA | 1 | 6/27/06 | 6/28/06 | 9:08 | 9:11 | 15.45 | 14.51 | 14.98 | 1442 | ND | trace | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | trace |
| 1047 | MAR | 1 | 6/27/06 | 6/28/06 | 8:18 | 8:23 | 14.95 | 14.3 | 14.625 | 1445 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1057 | BEN | 2 | 6/28/06 | 6/29/06 | 8:51 | 8:55 | 15.38 | 15.47 | 15.425 | 1445 | ND | trace | ND | trace | ND | ND | ND | ND | trace | trace | ND | trace | trace |
| 1060 | CHA | 2 | 6/28/06 | 6/29/06 | 9:14 | 9:24 | 15.15 | 15.13 | 15.14 | 1450 | ND | ND | ND | trace | ND | ND | ND | ND | trace | ND | ND | trace | trace |
| 1046 | MAR | 2 | 6/28/06 | 6/29/06 | 8:27 | 8:30 | 15.31 | 15.68 | 15.495 | 1443 | ND | trace | ND | trace | ND | ND | ND | ND | trace | ND | ND | ND | trace |
| 1081 | BEN | 3 | 6/29/06 | 6/30/06 | 8:58 | 8:48 | 14.96 | 14.84 | 14.9 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1075 | CHA | 3 | 6/29/06 | 6/30/06 | 9:28 | 9:18 | 15.25 | 15.04 | 15.145 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 1130 | MAR | 3 | 6/29/06 | 6/30/06 | 8:35 | 8:30 | 15.28 | 15.15 | 15.215 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | trace | trace |
| 1083 | BEN | 1 | 7/3/06 | 7/4/06 | 8:35 | 9:21 | 15.11 | 14.11 | 14.61 | 1486 | ND | trace | ND | trace | ND | ND | ND | ND | trace | trace | ND | ND | trace |
| 1052 | CHA | 1 | 7/3/06 | 7/4/06 | 9:02 | 9:46 | 15.18 | 14.08 | 14.63 | 1484 | ND | trace | ND | trace | ND | ND | ND | ND | trace | ND | ND | ND | trace |
| 1040 | MAR | 1 | 7/3/06 | 7/4/06 | 8:11 | 8:19 | 15.13 | 14.06 | 14.595 | 1449 | ND | trace | ND | trace | ND | ND | ND | ND | ND | trace | ND | ND | ND |
| 1063 | BEN | 2 | 7/4/06 | 7/5/06 | 9:26 | 9:16 | 15.31 | 15.62 | 15.465 | 1430 | ND | trace | ND | ND | ND | ND | trace | ND | 0.311 | ND | ND | ND | 0.317 |
| 1051 | CHA | 2 | 7/4/06 | 7/5/06 | 9:50 | 9:46 | 15.04 | 15.17 | 15.105 | 1436 | ND | trace | ND | ND | ND | ND | trace | ND | 0.228 | ND | ND | ND | 0.188 |
| 1070 | MAR | 2 | 7/4/06 | 7/5/06 | 8:23 | 8:21 | 15.28 | 15.08 | 15.18 | 1438 | ND | trace | ND | trace | ND | ND | trace | ND | 0.187 | trace | ND | ND | 0.187 |
| 1061 | BEN | 3 | 7/5/06 | 7/6/06 | 9:22 | 9:12 | 15.22 | 14.94 | 15.08 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | trace | trace | ND | ND | trace |
| 1077 | CHA | 3 | 7/5/06 | 7/6/06 | 9:51 | 9:41 | 15.19 | 15.01 | 15.1 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | 0.131 | trace | ND | ND | 0.118 |
| 1043 | MAR | 3 | 7/5/06 | 7/6/06 | 8:28 | 8:31 | 15.23 | 15.08 | 15.155 | 1443 | ND | trace | ND | trace | ND | ND | ND | ND | trace | trace | ND | ND | trace |
| 1078 | MAR | 1 | 7/9/06 | 710/06 | 8:48 | 8:53 | 15.18 | 14.06 | 14.62 | 1458 | ND | trace | N/A | ND | trace | ND | ND | ND | 0.289 | ND | ND | ND | 0.12 |
| 1113 | BEN | 1 | 7/9/06 | 7/10/06 | 10:02 | 9:19 | 15.54 | 15.41 | 15.475 | 1397 | ND | trace | N/A | ND | trace | ND | ND | ND | 0.152 | ND | ND | ND | trace |
| 1084 | CHA | 1 | 7/9/06 | 7/10/06 | 9:18 | 9:44 | 15.45 | 14.32 | 14.885 | 1466 | ND | trace | N/A | ND | trace | ND | ND | ND | 0.17 | ND | ND | ND | trace |
| 1148 | MAR | 2 | 7/10/06 | 7/11/06 | 9:00 | 8:55 | 15.01 | 15.01 | 15.01 | 1436 | ND | ND | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace |
| 1109 | BEN | 2 | 7/10/06 | 7/11/06 | 9:24 | 9:20 | 15.3 | 15.37 | 15.335 | 1436 | ND | trace | N/A | trace | trace | ND | ND | ND | 0.219 | ND | ND | ND | 0.326 |
| 1122 | CHA | 2 | 7/10/06 | 7/11/06 | 9:48 | 9:43 | 15.11 | 15.05 | 15.08 | 1434 | ND | trace | N/A | trace | trace | ND | ND | ND | 0.389 | ND | ND | ND | 0.54 |
| 1142 | MAR | 3 | 7/11/06 | 7/12/06 | 8:59 | 8:49 | 15.34 | 15.18 | 15.26 | 1430 | ND | ND | N/A | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1121 | BEN | 3 | 7/11/06 | 7/12/06 | 9:26 | 9:15 | 15.36 | 15.44 | 15.4 | 1430 | ND | ND | N/A | ND | ND | ND | ND | ND | 0.156 | ND | ND | ND | 0.274 |
| 1105 | CHA | 3 | 7/11/06 | 7/12/06 | 9:47 | 9:37 | 15.23 | 15.04 | 15.135 | 1430 | ND | ND | N/A | ND | trace | ND | ND | ND | 0.277 | ND | ND | ND | 0.182 |
| 1107 | MAR | 1 | 7/16/06 | 7/17/06 | 8:24 | 8:19 | 15.49 | 14.29 | 14.89 | 1436 | ND | trace | ND | trace | trace | ND | ND | ND | 0.19 | trace | ND | ND | 0.185 |
| 1120 | BEN | 1 | 7/16/06 | 7/17/06 | 9:34 | 8:50 | 15.58 | 14.6 | 15.09 | 1396 | ND | trace | ND | trace | trace | ND | ND | ND | 0.163 | trace | ND | ND | 0.109 |
| 1115 | CHA | 1 | 7/16/06 | 7/17/06 | 9:04 | 9:18 | 15.76 | 14.52 | 15.14 | 1453 | ND | trace | ND | trace | trace | ND | ND | ND | 0.161 | trace | ND | ND | trace |
| 1145 | MAR | 2 | 7/17/06 | 7/18/06 | 8:24 | 8:28 | 15.04 | 14.68 | 14.86 | 1444 | ND | ND | ND | trace | trace | ND | ND | ND | ND | trace | ND | trace | ND |
| 1144 | BEN | 2 | 7/17/06 | 7/18/06 | 8:56 | 8:56 | 15.14 | 15.11 | 15.125 | 1440 | ND | trace | ND | trace | trace | ND | ND | ND | trace | trace | ND | trace | trace |
| 1108 | CHA | 2 | 7/17/06 | 7/18/06 | 9:22 | 9:26 | 15.25 | 15.34 | 15.295 | 1444 | ND | trace | ND | trace | trace | ND | ND | ND | trace | trace | ND | trace | trace |
| 1150 | MAR | 3 | 7/18/06 | 7/19/06 | 8:33 | 8:29 | 15.06 | 15.02 | 15.04 | 1436 | ND | ND | ND | trace | trace | ND | ND | ND | 0.573 | trace | ND | trace | 0.923 |
| 1146 | BEN | 3 | 7/18/06 | 7/19/06 | 9:03 | 8:54 | 15.34 | 15.36 | 15.35 | 1432 | ND | ND | ND | trace | trace | ND | ND | ND | 0.688 | trace | ND | trace | 1.16 |
| 1118 | CHA | 3 | 7/18/06 | 7/19/06 | 9:30 | 9:19 | 15.14 | 15.21 | 15.175 | 1429 | ND | ND | ND | trace | trace | ND | ND | ND | 1.53 | trace | ND | trace | 3.72 |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1117 | BEN | 1 | 7/26/06 | 7/27/06 | 8:59 | 8:56 | 15.76 | 15.14 | 15.45 | 1437 | ND | trace | ND | trace | trace | ND | ND | ND | 0.136 | ND | ND | trace | 0.105 |
| 1153 | CHA | 1 | 7/26/06 | 7/27/06 | 9:20 | 9:19 | 15.44 | 14.56 | 15 | 1439 | ND | ND | ND | trace | trace | ND | ND | ND | 0.109 | ND | ND | trace | trace |
| 1112 | MAR | 1 | 7/26/06 | 7/27/06 | 8:27 | 8:31 | 15.52 | 14.48 | 15 | 1433 | ND | ND | ND | trace | trace | ND | ND | ND | 0.222 | ND | ND | trace | 0.303 |
| 1171 | BEN | 2 | 7/27/06 | 7/28/06 | 8:59 | 8:50 | 14.95 | 14.76 | 14.855 | 1431 | ND | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND |
| 1164 | CHA | 2 | 7/27/06 | 7/28/06 | 9:22 | 9:15 | 15.11 | 15.11 | 15.11 | 1432 | ND | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | trace | ND |
| 1154 | MAR | 2 | 7/27/06 | 7/28/06 | 8:35 | 8:25 | 15.24 | 15.12 | 15.18 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1190 | BEN | 3 | 7/28/06 | 7/29/06 | 8:57 | 8:47 | 15.26 | 15.38 | 15.32 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | trace | trace | ND | trace | trace |
| 1152 | CHA | 3 | 7/28/06 | 7/29/06 | 9:20 | 9:10 | 15.42 | 15.56 | 15.49 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | ND | trace | ND | trace | ND |
| 1151 | MAR | 3 | 7/28/06 | 7/29/06 | 8:29 | 8:19 | 15.31 | 15.28 | 15.295 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1183 | BEN | 1 | 8/1/06 | 8/2/06 | 8:58 | 9:11 | 15.61 | 14.57 | 15.09 | 1454 | ND | ND | ND | trace | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1166 | CHA | 1 | 8/1/06 | 8/2/06 | 9:21 | 9:31 | 15.55 | 13.79 | 14.67 | 1450 | ND | ND | ND | trace | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1167 | MAR | 1 | 8/1/06 | 8/2/06 | 8:27 | 8:32 | 15.6 | 14.41 | 15.005 | 1445 | ND | ND | ND | trace | trace | ND | trace | ND | ND | ND | ND | ND | trace |
| 1161 | BEN | 2 | 8/2/06 | 8/3/06 | 9:17 | 9:07 | 15.01 | 15.08 | 15.045 | 1430 | ND | ND | ND | trace | trace | ND | trace | ND | trace | ND | ND | ND | trace |
| 1191 | CHA | 2 | 8/2/06 | 8/3/06 | 9:41 | 9:31 | 15.11 | 15.05 | 15.08 | 1430 | ND | ND | ND | trace | trace | ND | trace | ND | 0.113 | trace | ND | ND | trace |
| 1195 | MAR | 2 | 8/2/06 | 8/3/06 | 8:42 | 8:32 | 15.05 | 14.92 | 14.985 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | trace | trace | ND | ND | trace |
| 1158 | BEN | 3 | 8/3/06 | 8/4/06 | 9:14 | 9:04 | 15.27 | 15.19 | 15.23 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | 0.139 | ND | ND | ND | 0.122 |
| 1197 | CHA | 3 | 8/3/06 | 8/4/06 | 9:37 | 9:27 | 15.23 | 15.29 | 15.26 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | 0.223 | ND | ND | ND | 0.26 |
| 1185 | MAR | 3 | 8/3/06 | 8/4/06 | 8:36 | 8:26 | 15.22 | 15.08 | 15.15 | 1430 | ND | ND | ND | ND | trace | ND | ND | ND | 0.149 | trace | ND | ND | 0.145 |
| 1163 | BEN | 1 | 8/8/06 | 8/9/06 | 8:48 | 8:42 | 15.54 | 14.48 | 15.01 | 1434 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1178 | CHA | 1 | 8/8/06 | 8/9/06 | 9:17 | 9:07 | 15.38 | 14.4 | 14.89 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | 0.105 | ND | ND | ND | 0.214 |
| 1173 | MAR | 1 | 8/8/06 | 8/9/06 | 8:23 | 8:19 | 15.45 | 14.44 | 14.945 | 1437 | ND | ND | ND | ND | trace | ND | ND | ND | ND | trace | ND | ND | ND |
| 1192 | BEN | 2 | 8/9/06 | 8/10/06 | 8:47 | 8:49 | 15.29 | 15.18 | 15.235 | 1443 | ND | ND | ND | trace | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1200 | CHA | 2 | 8/9/06 | 8/10/06 | 9:13 | 9:23 | 15.09 | 15.25 | 15.17 | 1450 | ND | ND | ND | trace | trace | ND | ND | ND | 0.194 | ND | ND | ND | 0.237 |
| 1179 | MAR | 2 | 8/9/06 | 8/10/06 | 8:24 | 8:25 | 15.29 | 14.99 | 15.14 | 1441 | ND | ND | ND | trace | trace | ND | ND | ND | 0.115 | ND | ND | ND | trace |
| 1236 | BEN | 3 | 8/10/06 | 8/11/06 | 8:54 | 8:46 | 15.2 | 15.01 | 15.105 | 1432 | ND | ND | ND | trace | trace | ND | ND | ND | 0.101 | ND | ND | ND | trace |
| 1223 | CHA | 3 | 8/10/06 | 8/11/06 | 9:28 | 9:19 | 15.23 | 15.32 | 15.275 | 1430 | ND | ND | ND | trace | trace | ND | trace | ND | 0.211 | ND | ND | trace | trace |
| 1175 | MAR | 3 | 8/10/06 | 8/11/06 | 8:29 | 8:19 | 15.25 | 15.2 | 15.225 | 1430 | ND | ND | ND | trace | trace | ND | ND | ND | 0.177 | ND | ND | ND | 0.159 |
| 1232 | BEN | 1 | 8/14/06 | 8/15/06 | 8:58 | 8:53 | 15.45 | 14.58 | 15.015 | 1435 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1212 | CHA | 1 | 8/14/06 | 8/15/06 | 9:25 | 9:26 | 15.47 | 13.71 | 14.59 | 1441 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1215 | MAR | 1 | 8/14/06 | 8/15/06 | 8:32 | 8:31 | 15.48 | 14.35 | 14.915 | 1439 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1226 | BEN | 2 | 8/15/06 | 8/16/06 | 8:59 | 9:07 | 15.45 | 15.21 | 15.33 | 1448 | ND | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1204 | CHA | 2 | 8/15/06 | 8/16/06 | 9:32 | 9:45 | 15.06 | 15.21 | 15.135 | 1453 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1239 | MAR | 2 | 8/15/06 | 8/16/06 | 8:35 | 8:36 | 15.27 | 15.03 | 15.15 | 1442 | ND | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1233 | BEN | 3 | 8/16/06 | 8/17/06 | 9:16 | 9:10 | 15.29 | 14.61 | 14.95 | 1435 | ND | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | trace |
| 1222 | CHA | 3 | 8/16/06 | 8/17/06 | 9:50 | 9:40 | 14.99 | 14.81 | 14.9 | 1430 | ND | ND | ND | ND | trace | ND | ND | ND | trace | ND | ND | ND | ND |
| 1224 | MAR | 3 | 8/16/06 | 8/17/06 | 8:46 | 8:47 | 15.11 | 14.92 | 15.015 | 1441 | ND | ND | ND | ND | trace | ND | ND | ND | 0.266 | ND | ND | ND | 0.447 |
| 1235 | BEN | 1 | 8/21/06 | 8/22/06 | 8:58 | 9:00 | 15.5 | 14.59 | 15.045 | 1442 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1214 | CHA | 1 | 8/21/06 | 8/22/06 | 9:27 | 9:34 | 15.41 | 13.89 | 14.65 | 1446 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1213 | MAR | 1 | 8/21/06 | 8/22/06 | 8:30 | 8:29 | 15.47 | 14.47 | 14.97 | 1440 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace |
| 1220 | BEN | 2 | 8/22/06 | 8/23/06 | 9:11 | 8:55 | 15.23 | 16.78 | 16.005 | 1425 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1248 | CHA | 2 | 8/22/06 | 8/23/06 | 9:40 | 9:30 | 15.39 | 15.2 | 15.295 | 1430 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1227 | MAR | 2 | 8/22/06 | 8/23/06 | 8:36 | 8:27 | 15.36 | 15.14 | 15.25 | 1432 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1229 | BEN | 3 | 8/23/06 | 8/24/06 | 9:00 | 8:59 | 15.18 | 15.15 | 15.165 | 1439 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1250 | CHA | 3 | 8/23/06 | 8/24/06 | 9:34 | 9:24 | 15.02 | 14.98 | 15 | 1431 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1240 | MAR | 3 | 8/23/06 | 8/24/06 | 8:32 | 8:27 | 15.3 | 15.07 | 15.185 | 1436 | ND | ND | ND | ND | trace | ND | trace | ND | trace | ND | ND | ND | trace |
| 1246 | BEN | 1 | 8/27/06 | 8/28/06 | 8:30 | 8:20 | 15.66 | 14.6 | 15.13 | 1430 | ND | ND | ND | ND | ND | ND | 0.111 | ND | ND | ND | trace | ND | ND |
| 1216 | CHA | 1 | 8/27/06 | 8/28/06 | 8:59 | 8:49 | 15.48 | 14.08 | 14.78 | 1430 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1219 | MAR | 1 | 8/27/06 | 8/28/06 | 8:03 | 7:52 | 15.49 | 14.39 | 14.94 | 1430 | ND | ND | ND | ND | trace | ND | 0.336 | ND | ND | ND | 0.438 | ND | ND |
| 1253 | BEN | 2 | 8/28/06 | 8/29/06 | 8:24 | 8:16 | 15.18 | 14.81 | 14.995 | 1432 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1301 | CHA | 2 | 8/28/06 | 8/29/06 | 8:52 | 8:42 | 15.28 | 15.33 | 15.305 | 1430 | ND | ND | ND | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND |
| 1282 | MAR | 2 | 8/28/06 | 8/29/06 | 7:58 | 7:53 | 14.99 | 14.72 | 14.855 | 1435 | ND | ND | ND | ND | trace | ND | 0.201 | ND | ND | ND | trace | ND | ND |
| 1254 | BEN | 3 | 8/29/06 | 8/30/06 | 8:21 | 8:50 | 15.11 | 15.11 | 15.11 | 1466 | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND |
| 1261 | CHA | 3 | 8/29/06 | 8/28/06 | 8:46 | 9:05 | 15.31 | 15.07 | 15.19 | 1453 | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND |
| 1265 | MAR | 3 | 8/29/06 | 8/30/06 | 7:58 | 8:25 | 15.25 | 14.97 | 15.11 | 1472 | ND | ND | ND | ND | trace | ND | 0.102 | ND | ND | ND | trace | ND | ND |
| 1306 | BEN | 1 | 9/6/06 | 9/7/06 | 8:14 | 8:25 | 15.44 | 14.67 | 15.055 | 1451 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1269 | CHA | 1 | 9/6/06 | 9/7/06 | 8:37 | 8:35 | 15.48 | 14.13 | 14.805 | 1455 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1264 | MAR | 1 | 9/6/06 | 9/7/06 | 7:49 | 7:55 | 15.49 | 14.89 | 15.19 | 1446 | ND | ND | ND | ND | trace | ND | trace | ND | ND | trace | ND | ND | ND |
| 1311 | BEN | 2 | 9/7/06 | 9/8/06 | 8:32 | 8:29 | 15.03 | 14.99 | 15.01 | 1438 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1275 | CHA | 2 | 9/7/06 | 9/8/06 | 8:59 | 9:01 | 15.17 | 14.82 | 14.995 | 1442 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1258 | MAR | 2 | 9/7/06 | 9/8/06 | 8:03 | 7:53 | 15 | 14.92 | 14.96 | 1430 | ND | ND | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND |
| 1268 | BEN | 3 | 9/8/06 | 9/9/06 | 8:38 | 8:28 | 15.31 | 15.38 | 15.345 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1310 | CHA | 3 | 9/8/06 | 9/9/06 | 9:05 | 9:03 | 15.05 | 13.16 | 14.105 | 1439 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1273 | MAR | 3 | 9/8/06 | 9/9/06 | 8:08 | 7:53 | 15.19 | 14.98 | 15.085 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1286 | BEN | 1 | 9/12/06 | 9/13/06 | 8:10 | 8:01 | 15.44 | 14.62 | 15.03 | 1431 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1283 | CHA | 1 | 9/12/06 | 9/13/06 | 8:36 | 8:30 | 15.46 | 15.75 | 15.605 | 1433 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1307 | MAR | 1 | 9/12/06 | 9/13/06 | 7:49 | 7:39 | 15.47 | 14.32 | 14.895 | 1430 | ND | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND |
| 1277 | BEN | 2 | 9/13/06 | 9/14/06 | 8:07 | 8:05 | 15.16 | 14.96 | 15.06 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1303 | CHA | 2 | 9/13/06 | 9/14/06 | 8:35 | 8:33 | 15.36 | 12.44 | 13.9 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1280 | MAR | 2 | 9/13/06 | 9/14/06 | 7:42 | 7:40 | 15.34 | 15.34 | 15.34 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1284 | BEN | 3 | 9/14/06 | 9/15/06 | 8:09 | 8:03 | 15.22 | 14.04 | 14.63 | 1435 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1281 | CHA | 3 | 9/14/06 | 9/15/06 | 8:42 | 8:33 | 15.17 | 15.52 | 15.345 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1272 | MAR | 3 | 9/14/06 | 9/15/06 | 7:44 | 7:41 | 15.2 | 15.11 | 15.155 | 1437 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1327 | BEN | 1 | 9/19/06 | 9/20/06 | 7:59 | 7:59 | 15.49 | 14.68 | 15.085 | 1440 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1288 | CHA | 1 | 9/19/06 | 9/20/06 | 8:23 | 8:21 | 15.49 | 13.91 | 14.7 | 1438 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1295 | MAR | 1 | 9/19/06 | 9/20/06 | 7:41 | 7:35 | 15.47 | 14.99 | 15.23 | 1435 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1293 | BEN | 2 | 9/20/06 | 9/21/06 | 8:03 | 8:09 | 15.15 | 14.92 | 15.035 | 1446 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1297 | CHA | 2 | 9/20/06 | 9/21/06 | 8:25 | 8:31 | 15.18 | 14.98 | 15.08 | 1446 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1324 | MAR | 2 | 9/20/06 | 9/21/06 | 7:39 | 7:43 | 15.34 | 15.3 | 15.32 | 1444 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1341 | BEN | 3 | 9/21/06 | 9/22/06 | 8:14 | 8:04 | 15.2 | 15.49 | 15.345 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1298 | CHA | 3 | 9/21/06 | 9/22/06 | 8:36 | 8:26 | 15.19 | 15.18 | 15.185 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1312 | MAR | 3 | 9/21/06 | 9/22/06 | 7:50 | 7:40 | 15.11 | 15.01 | 15.06 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1343 | BEN | 1 | 9/25/06 | 9/26/06 | 8:02 | 8:05 | 15.58 | 13.84 | 14.71 | 1444 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1340 | CHA | 1 | 9/25/06 | 9/26/06 | 8:19 | 8:29 | 15.49 | 13.67 | 14.58 | 1450 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1314 | MAR | 1 | 9/25/06 | 9/26/06 | 7:41 | 7:35 | 15.48 | 13.87 | 14.675 | 1436 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1334 | BEN | 2 | 9/26/06 | 9/27/06 | 8:09 | 8:00 | 15.23 | 15.31 | 15.27 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1322 | CHA | 2 | 9/26/06 | 9/27/06 | 8:32 | 8:37 | 15.01 | 14.89 | 14.95 | 1444 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1330 | MAR | 2 | 9/26/06 | 9/27/06 | 7:44 | 7:34 | 15.04 | 13.89 | 14.465 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1319 | BEN | 3 | 9/27/06 | 9/28/06 | 8:10 | 8:00 | 15.22 | 15.18 | 15.2 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND | trace | ND |
| 1321 | CHA | 3 | 9/27/06 | 9/28/06 | 8:42 | 8:32 | 15.08 | 14.99 | 15.035 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1328 | MAR | 3 | 9/27/06 | 9/28/06 | 7:39 | 7:38 | 15.08 | 14.86 | 14.97 | 1440 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1333 | BEN | 1 | 10/1/06 | 10/2/06 | 8:01 | 8:19 | 15.5 | 15.59 | 15.545 | 1459 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1329 | CHA | 1 | 10/1/06 | 10/2/06 | 8:24 | 8:41 | 15.45 | 13.71 | 14.58 | 1457 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1338 | MAR | 1 | 10/1/06 | 10/2/06 | 7:31 | 7:52 | 15.52 | 14.22 | 14.87 | 1462 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1347 | BEN | 2 | 10/2/06 | 10/3/06 | 8:24 | 8:13 | 15.1 | 15.02 | 15.06 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1381 | CHA | 2 | 10/2/06 | 10/3/06 | 8:45 | 8:35 | 15.09 | 14.92 | 15.005 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1349 | MAR | 2 | 10/2/06 | 10/3/06 | 7:56 | 7:48 | 15.13 | 14.97 | 15.05 | 1433 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1379 | BEN | 3 | 10/3/06 | 10/4/06 | 8:16 | 8:06 | 15.07 | 15.53 | 15.3 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1375 | CHA | 3 | 10/3/06 | 10/4/06 | 8:37 | 8:27 | 15.05 | 15.17 | 15.11 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1351 | MAR | 3 | 10/3/06 | 10/4/06 | 7:51 | 7:41 | 15.1 | 15.06 | 15.08 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1354 | BEN | 1 | 10/8/06 | 10/9/06 | 8:07 | 8:09 | 15.5 | 14.24 | 14.87 | 1443 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1382 | CHA | 1 | 10/8/06 | 10/9/06 | 8:39 | 8:30 | 15.49 | 13.58 | 14.535 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1366 | MAR | 1 | 10/8/06 | 10/9/06 | 7:45 | 7:46 | 15.52 | 13.78 | 14.65 | 1442 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1387 | BEN | 2 | 10/9/06 | 10/10/06 | 8:14 | 8:04 | 15 | 15.22 | 15.11 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1376 | CHA | 2 | 10/9/06 | 10/10/06 | 8:34 | 8:24 | 15.14 | 15.13 | 15.135 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1358 | MAR | 2 | 10/9/06 | 10/10/06 | 7:51 | 7:42 | 14.99 | 15.02 | 15.005 | 1432 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1393 | BEN | 3 | 10/10/06 | 10/11/06 | 8:06 | 7:56 | 15.29 | 15.4 | 15.345 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1404 | CHA | 3 | 10/10/06 | 10/11/06 | 8:26 | 8:18 | 14.96 | 14.9 | 14.93 | 1431 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1360 | MAR | 3 | 10/10/06 | 10/11/06 | 7:46 | 7:36 | 15.21 | 15.08 | 15.145 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1362 | BEN | 1 | 10/18/06 | 10/19/06 | 8:09 | 8:11 | 15.47 | 15.78 | 15.625 | 1442 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1368 | CHA | 1 | 10/18/06 | 10/19/06 | 8:35 | 8:37 | 15.53 | 13.6 | 14.565 | 1442 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1377 | MAR | 1 | 10/18/06 | 10/19/06 | 7:39 | 7:43 | 15.43 | 14.38 | 14.905 | 1445 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1396 | BEN | 2 | 10/19/06 | 10/20/06 | 8:17 | 8:06 | 15.31 | 15.32 | 15.315 | 1429 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1392 | CHA | 2 | 10/19/06 | 10/20/06 | 8:42 | 8:33 | 15.23 | 15.42 | 15.325 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1390 | MAR | 2 | 10/19/06 | 10/20/06 | 7:48 | 7:38 | 15.24 | 15.34 | 15.29 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1389 | BEN | 3 | 10/20/06 | 10/21/06 | 8:09 | 7:58 | 15.34 | 15.16 | 15.25 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1380 | CHA | 3 | 10/20/06 | 10/21/06 | 8:34 | 8:24 | 15.3 | 15.45 | 15.375 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1374 | MAR | 3 | 10/20/06 | 10/21/06 | 7:39 | 7:39 | 15.27 | 15.3 | 15.285 | 1440 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1383 | BEN | 1 | 10/24/06 | 10/25/06 | 7:57 | 8:05 | 15.6 | 15.86 | 15.73 | 1448 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1408 | CHA | 1 | 10/24/06 | 10/25/06 | 8:15 | 8:27 | 15.48 | 13.64 | 14.56 | 1452 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1352 | MAR | 1 | 10/24/06 | 10/25/06 | 7:35 | 7:38 | 15.54 | 15.1 | 15.32 | 1443 | ND | ND | ND | 1.17 | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1433 | BEN | 2 | 10/25/06 | 10/26/06 | 8:09 | 8:17 | 15 | 15.12 | 15.06 | 1449 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1427 | CHA | 2 | 10/25/06 | 10/26/06 | 8:33 | 8:43 | 15.54 | 13.85 | 14.695 | 1450 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1405 | MAR | 2 | 10/25/06 | 10/26/06 | 7:43 | 7:50 | 15.24 | 15.09 | 15.165 | 1448 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1416 | BEN | 3 | 10/26/06 | 10/27/06 | 8:23 | 8:13 | 15.29 | 15.31 | 15.3 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1406 | CHA | 3 | 10/26/06 | 10/27/06 | 8:48 | 8:38 | 15.37 | 15.54 | 15.455 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1432 | MAR | 3 | 10/26/06 | 10/27/06 | 7:56 | 7:46 | 15.22 | 15.11 | 15.165 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1411 | BEN | 1 | 10/29/06 | 10/30/06 | 8:03 | 7:55 | 15.52 | 15.47 | 15.495 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1430 | CHA | 1 | 10/29/06 | 10/30/06 | 8:28 | 8:18 | 15.48 | 13.93 | 14.705 | 1430 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1451 | MAR | 1 | 10/29/06 | 10/30/06 | 7:39 | 7:34 | 15.81 | 13.86 | 14.835 | 1435 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1409 | BEN | 2 | 10/30/06 | 10/31/06 | 8:01 | 7:59 | 15.11 | 15.13 | 15.12 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1436 | CHA | 2 | 10/30/06 | 10/31/06 | 8:21 | 8:18 | 15.23 | 15.48 | 15.355 | 1437 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1424 | MAR | 2 | 10/30/06 | 10/31/06 | 7:38 | 7:36 | 15.07 | 15.05 | 15.06 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1439 | BEN | 3 | 10/31/06 | 11/1/06 | 8:01 | 8:04 | 15.28 | 14.77 | 15.025 | 1443 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1445 | CHA | 3 | 10/31/06 | 11/1/06 | 8:21 | 8:22 | 15.23 | 15.73 | 15.48 | 1441 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1435 | MAR | 3 | 10/31/06 | 11/1/06 | 7:39 | 7:45 | 15.04 | 14.26 | 14.65 | 1446 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | trace | ND |
| 1449 | BEN | 1 | 11/6/06 | 11/7/06 | 8:08 | 7:58 | 15.5 | 14.64 | 15.07 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1412 | CHA | 1 | 11/6/06 | 11/7/06 | 8:33 | 8:23 | 15.46 | 13.54 | 14.5 | 1430 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1425 | MAR | 1 | 11/6/06 | 11/7/06 | 7:45 | 7:35 | 15.52 | 14.17 | 14.845 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1402 | BEN | 2 | 11/7/06 | 11/8/06 | 8:00 | 8:00 | 15.06 | 15.18 | 15.12 | 1440 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1454 | CHA | 2 | 11/7/06 | 11/8/06 | 8:27 | 8:24 | 15.05 | 15.27 | 15.16 | 1437 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1415 | MAR | 2 | 11/7/06 | 11/8/06 | 7:37 | 7:37 | 15.05 | 14.94 | 14.995 | 1440 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1460 | BEN | 3 | 11/8/06 | 11/9/06 | 8:04 | 8:09 | 15.14 | 14.87 | 15.005 | 1446 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1448 | CHA | 3 | 11/8/06 | 11/9/06 | 8:27 | 8:39 | 15.22 | 15.5 | 15.36 | 1452 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1407 | MAR | 3 | 11/8/06 | 11/9/06 | 7:42 | 7:38 | 15.25 | 15.26 | 15.255 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1473 | BEN | 1 | 11/13/06 | 11/14/06 | 8:04 | 7:59 | 15.52 | 14.02 | 14.77 | 1435 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1478 | CHA | 1 | 11/13/06 | 11/14/06 | 8:28 | 8:20 | 15.49 | 12.92 | 14.205 | 1432 | ND | trace | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1491 | MAR | 1 | 11/13/06 | 11/14/06 | 7:43 | 7:37 | 15.47 | 14.04 | 14.755 | 1434 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1486 | BEN | 2 | 11/14/06 | 11/15/06 | 8:01 | 7:54 | 15.24 | 16.13 | 15.685 | 1433 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1492 | CHA | 2 | 11/14/06 | 11/15/06 | 8:24 | 8:22 | 15.23 | 15.5 | 15.365 | 1438 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1495 | MAR | 2 | 11/14/06 | 11/15/06 | 7:42 | 7:32 | 15.07 | 15.08 | 15.075 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1452 | BEN | 3 | 11/15/06 | 11/16/06 | 8:08 | 8:01 | 15.27 | 15.27 | 15.27 | 1433 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1464 | CHA | 3 | 11/15/06 | 11/16/06 | 8:26 | 8:18 | 15.08 | 15.34 | 15.21 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1494 | MAR | 3 | 11/15/06 | 11/16/06 | 7:36 | 7:42 | 15.17 | 15.06 | 15.115 | 1447 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1490 | BEN | 1 | 11/19/06 | 11/20/06 | 8:04 | 8:07 | 15.57 | 15 | 15.285 | 1443 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1471 | CHA | 1 | 11/19/06 | 11/20/06 | 8:33 | 8:26 | 15.53 | 14.36 | 14.945 | 1433 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1463 | MAR | 1 | 11/19/06 | 11/20/06 | 7:39 | 7:42 | 15.57 | 14.33 | 14.95 | 1443 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1456 | BEN | 2 | 11/20/06 | 11/21/06 | 8:12 | 8:04 | 15.23 | 15.34 | 15.285 | 1432 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1479 | CHA | 2 | 11/20/06 | 11/21/06 | 8:30 | 8:27 | 15.06 | 15.3 | 15.18 | 1437 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1475 | MAR | 2 | 11/20/06 | 11/21/06 | 7:46 | 7:43 | 15.1 | 15.07 | 15.085 | 1437 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1461 | BEN | 3 | 11/21/06 | 11/22/06 | 8:08 | 7:57 | 15.03 | 15.19 | 15.11 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1466 | CHA | 3 | 11/21/06 | 11/22/06 | 8:29 | 8:09 | 15.3 | 15.35 | 15.325 | 1420 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1465 | MAR | 3 | 11/21/06 | 11/22/06 | 7:45 | 7:43 | 15.08 | 15.02 | 15.05 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1497 | BEN | 1 | 11/29/06 | 11/30/06 | 8:09 | 8:11 | 15.55 | 14.71 | 15.13 | 1443 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1446 | CHA | 1 | 11/29/06 | 11/30/06 | 8:31 | 8:33 | 15.55 | 12.93 | 14.24 | 1442 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1485 | MAR | 1 | 11/29/06 | 11/30/06 | 7:49 | 7:46 | 15.43 | 14.91 | 15.17 | 1438 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1569 | BEN | 2 | 11/30/06 | 12/1/06 | 8:16 | 9:59 | 15.25 | 15.56 | 15.405 | 1544 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1554 | CHA | 2 | 11/30/06 | 12/1/06 | 8:37 | 10:23 | 15.28 | 15.45 | 15.365 | 1545 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1539 | MAR | 2 | 11/30/06 | 12/1/06 | 7:51 | 7:31 | 15.27 | 15.3 | 15.285 | 1432 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1558 | BEN | 3 | 12/1/06 | 12/2/06 | 9:58 | 9:54 | 15.29 | 15.02 | 15.155 | 1432 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1544 | CHA | 3 | 12/1/06 | 12/2/06 | 10:27 | 10:17 | 15.01 | 14.78 | 14.895 | 1430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1551 | MAR | 3 | 12/1/06 | 12/2/06 | 7:47 | 9:40 | 15 | 14.67 | 14.835 | 1554 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1534 | BEN | 1 | 12/5/06 | 12/6/06 | 8:05 | 8:08 | 15.57 | 15.44 | 15.505 | 1443 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1540 | CHA | 1 | 12/5/06 | 12/6/06 | 8:27 | 8:31 | 15.46 | 13.23 | 14.345 | 1443 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1538 | MAR | 1 | 12/5/06 | 12/6/06 | 7:45 | 7:42 | 15.51 | 14.84 | 15.175 | 1437 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1570 | BEN | 2 | 12/6/06 | 12/7/06 | 8:12 | 8:04 | 15.04 | 14.99 | 15.015 | 1432 | ND | ND | ND | ND | ND | ND | ND | Trace | ND | ND | ND | ND | ND |
| 1563 | CHA | 2 | 12/6/06 | 12/7/06 | 8:34 | 8:24 | 15.11 | 15.48 | 15.295 | 1430 | ND | ND | ND | ND | ND | ND | ND | Trace | ND | ND | ND | ND | ND |
| 1574 | MAR | 2 | 12/6/06 | 12/7/06 | 7:47 | 7:43 | 15.08 | 15.06 | 15.07 | 1438 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1548 | BEN | 3 | 12/7/06 | 12/8/06 | 8:07 | 7:59 | 15.04 | 15.29 | 15.165 | 1433 | ND | ND | ND | ND | ND | ND | ND | Trace | ND | trace | ND | ND | ND |
| 1552 | CHA | 3 | 12/7/06 | 12/8/06 | 8:21 | 8:18 | 15.07 | 14.99 | 15.03 | 1431 | ND | ND | ND | ND | ND | ND | ND | Trace | ND | trace | ND | ND | ND |
| 1564 | MAR | 3 | 12/7/06 | 12/8/06 | 7:46 | 7:45 | 15.26 | 15.22 | 15.24 | 1439 | ND | ND | ND | ND | ND | ND | ND | Trace | ND | ND | ND | ND | ND |
| 1577 | BEN | 1 | 12/12/06 | 12/13/06 | 8:02 | 8:12 | 15.43 | 14.58 | 15.005 | 1448 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1565 | CHA | 1 | 12/12/06 | 12/13/06 | 8:21 | 8:37 | 15.5 | 13.08 | 14.29 | 1456 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1530 | MAR | 1 | 12/12/06 | 12/13/06 | 7:40 | 7:42 | 15.47 | 14.2 | 14.835 | 1443 | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1536 | BEN | 2 | 12/13/06 | 12/14/06 | 8:19 | 8:20 | 15.04 | 15.04 | 15.04 | 1442 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1535 | CHA | 2 | 12/13/06 | 12/14/06 | 8:41 | 8:44 | 15.08 | 15.18 | 15.13 | 1442 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1553 | MAR | 2 | 12/13/06 | 12/14/06 | 7:48 | 7:52 | 15.24 | 15.15 | 15.195 | 1444 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1531 | BEN | 3 | 12/14/06 | 12/15/06 | 8:26 | 8:29 | 15.37 | 15.34 | 15.355 | 1443 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1588 | CHA | 3 | 12/14/06 | 12/15/06 | 8:52 | 8:42 | 15.26 | 15.11 | 15.185 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1537 | MAR | 3 | 12/14/06 | 12/15/06 | 8:00 | 7:50 | 15.24 | 15.24 | 15.24 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1589 | BEN | 1 | 12/18/06 | 12/19/06 | 7:56 | 8:18 | 15.49 | 15.75 | 15.62 | 1463 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1597 | CHA | 1 | 12/18/06 | 12/19/06 | 8:18 | 8:42 | 15.53 | 13.13 | 14.33 | 1464 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1605 | MAR | 1 | 12/18/06 | 12/19/06 | 7:33 | 7:55 | 15.5 | 14.58 | 15.04 | 1462 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1580 | BEN | 2 | 12/19/06 | 12/20/06 | 8:23 | 8:18 | 15.21 | 15.13 | 15.17 | 1435 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1611 | CHA | 2 | 12/19/06 | 12/20/06 | 8:45 | | 15.25 | 15.45 | 15.35 | 1435* | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1616 | MAR | 2 | 12/19/06 | 12/20/06 | 7:58 | 7:50 | 15.14 | 15.14 | 15.14 | 1438 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1626 | BEN | 3 | 12/20/06 | 12/21/06 | 8:27 | 8:16 | 15.22 | 15.44 | 15.33 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1587 | CHA | 3 | 12/20/06 | 12/21/06 | 8:51 | 8:41 | 15.38 | 14.87 | 15.125 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1599 | MAR | 3 | 12/20/06 | 12/21/06 | 7:55 | 7:47 | 15.38 | 15.33 | 15.355 | 1432 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1620 | BEN | 1 | 12/25/06 | 12/26/06 | 8:08 | 7:58 | 15.33 | 14.31 | 14.82 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1617 | CHA | 1 | 12/25/06 | 12/26/06 | 8:29 | 8:19 | 15.4 | 12.76 | 14.08 | 1430 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1591 | MAR | 1 | 12/25/06 | 12/26/06 | 7:44 | 7:39 | 15.48 | 13.89 | 14.685 | 1435 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1594 | BEN | 2 | 12/26/06 | 12/27/06 | 8:00 | 8:06 | 15.17 | 15.36 | 15.265 | 1447 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1628 | CHA | 2 | 12/26/06 | 12/27/06 | 8:22 | 8:29 | 15.08 | 15.41 | 15.245 | 1447 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Raw data for multi-chemical samples collected by DPR. Only chemicals with detections (trace and quantifiable) are listed.

| Sample Number | Location Code | Interval Number | Start Date | End Date | Time On | Time Off | Flow On (L/min) | Flow Off (L/min) | Average flow (L/min) | Run Time (min) | DDVP | Trifluralin | Chlorothalonil | Chlorpyrifos | Propargite | Permethrin | Malathion OA | Simazine | Diazinon OA | Phosmet | Malathion | Chlorpyrifos OA | Diazinon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595 | MAR | 2 | 12/26/06 | 12/27/06 | 7:42 | 7:40 | 15.12 | 15.14 | 15.13 | 1439 | ND | ND | ND | trace | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1619 | BEN | 3 | 12/27/06 | 12/28/06 | 8:10 | 8:05 | 15.3 | 15.61 | 15.455 | 1435 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1582 | CHA | 3 | 12/27/06 | 12/28/06 | 8:32 | 8:24 | 15.21 | 15.32 | 15.265 | 1431 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1621 | MAR | 3 | 12/27/06 | 12/28/06 | 7:46 | 7:46 | 15.26 | 15.22 | 15.24 | 1440 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

*estimated

Reporting limit was changed to 2.0

Reporting limit was increased to 10

Reporting limit was changed to 4.0

Unable to analyze for due to equipment problems

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 116 | BEN | 1 | 628 | 1/3/2006 | 10:53 | 1/4/2006 | 9:41 | 1571 | 1588 | 1579.5 | 1368 | ND | nd |
| 109 | CHA | 1 | 301 | 1/3/2006 | 11:30 | 1/4/2006 | 10:29 | 1525 | 1570 | 1547.5 | 1379 | ND | nd |
| 112 | MAR | 1 | 349 | 1/3/2006 | 9:17 | 1/4/2006 | 8:57 | 1533 | 1513 | 1523 | 1419 | trace | trace |
| 100 | BEN | 2 | 280 | 1/4/2006 | 9:54 | 1/4/2006 | 9:43 | 1525 | 1595 | 1560 | 1430 | trace | trace |
| 107 | CHA | 2 | 301 | 1/4/2006 | 10:38 | 1/5/2006 | 10:20 | 1526 | 1557 | 1541.5 | 1423 | trace | trace |
| 104 | MAR | 2 | 349 | 1/4/2006 | 9:03 | 1/5/2006 | 9:06 | 1481 | 1491 | 1486 | 1442 | trace | trace |
| 120 | BEN | 3 | 628 | 1/5/2006 | 9:53 | 1/6/2006 | 9:25 | 1522 | 1592 | 1557 | 1411 | trace | trace |
| 105 | CHA | 3 | 301 | 1/5/2006 | 10:26 | 1/6/2006 | 9:51 | 1529 | 1565 | 1547 | 1404 | trace | trace |
| 121 | MAR | 3 | 349 | 1/5/2006 | 9:16 | 1/6/2006 | 9:02 | 1509 | 1559 | 1534 | 1426 | trace | trace |
| 125 | BEN | 1 | 628 | 1/10/2006 | 9:44 | 1/11/2006 | 9:35 | 1532 | 1542 | 1537 | 1430 | 0.0723 | 32.89 |
| 126 | CHA | 1 | 301 | 1/10/2006 | 10:28 | 1/11/2006 | 10:09 | 1486 | 1533 | 1509.5 | 1422 | 0.0570 | 26.55 |
| 103 | MAR | 1 | 349 | 1/10/2006 | 9:02 | 1/11/2006 | 8:50 | 1576 | 1558 | 1567 | 1428 | trace | trace |
| 168 | BEN | 2 | 280 | 1/11/2006 | 9:38 | 1/12/2006 | 9:37 | 1515 | 1589 | 1552 | 1439 | trace | trace |
| 169 | CHA | 2 | 214 | 1/11/2006 | 10:13 | 1/12/2006 | 10:19 | 1494 | 1574 | 1534 | 1445 | trace | trace |
| 117 | MAR | 2 | 349 | 1/11/2006 | 8:58 | 1/12/2006 | 8:41 | 1495 | 1602 | 1548.5 | 1423 | trace | trace |
| 119 | BEN | 3 | 628 | 1/12/2006 | 9:42 | 1/13/2006 | 9:20 | 1555 | 1591 | 1573 | 1417 | trace | trace |
| 170 | CHA | 3 | 214 | 1/12/2006 | 10:24 | 1/13/2006 | 10:10 | 1543 | 1606 | 1574.5 | 1428 | trace | trace |
| 113 | MAR | 3 | 349 | 1/12/2006 | 8:47 | 1/13/2006 | 8:53 | 1518 | 1518 | 1518 | 1446 | trace | trace |
| 179 | BEN | 1 | 628 | 1/16/2006 | 8:50 | 1/17/2006 | 8:52 | 1533 | 1570 | 1551.5 | 1442 | trace | trace |
| 167 | CHA | 1 | 301 | 1/16/2006 | 9:18 | 1/17/2006 | 9:38 | 1513 | 1556 | 1534.5 | 1459 | trace | trace |
| 151 | MAR | 1 | 587 | 1/16/2006 | 8:22 | 1/17/2006 | 8:16 | 1480 | 1490 | 1485 | 1434 | trace | trace |
| 157 | BEN | 2 | 628 | 1/17/2006 | 8:57 | 1/18/2006 | 8:59 | 1533 | 1570 | 1551.5 | 1442 | 0.0572 | 25.57 |
| 165 | CHA | 2 | 301 | 1/17/2006 | 9:40 | 1/18/2006 | 9:39 | 1536 | 1538 | 1537 | 1438 | ND | nd |
| 161 | MAR | 2 | 587 | 1/17/2006 | 8:23 | 1/18/2006 | 8:26 | 1511 | 1587 | 1549 | 1444 | 0.0518 | 23.16 |
| 153 | BEN | 3 | 317 | 1/18/2006 | 9:10 | 1/19/2006 | 8:43 | 1505 | 1491 | 1498 | 1413 | 0.0689 | 32.55 |
| 146 | CHA | 3 | 301 | 1/18/2006 | 9:45 | 1/19/2006 | 9:14 | 1502 | 1508 | 1505 | 1409 | 0.0710 | 33.48 |
| 177 | MAR | 3 | 587 | 1/18/2006 | 8:31 | 1/19/2006 | 8:20 | 1512 | 1520 | 1516 | 1429 | 0.0790 | 36.47 |
| 218 | BEN | 1 | 628 | 1/23/2006 | 8:59 | 1/24/2006 | 8:50 | 1534 | 1526 | 1530 | 1432 | 0.0548 | 25.01 |
| 173 | CHA | 1 | 303 | 1/23/2006 | 9:23 | 1/24/2006 | 9:21 | 1489 | 1516 | 1502.5 | 1436 | 0.0534 | 24.75 |
| 210 | MAR | 1 | 587 | 1/23/2006 | 8:33 | 1/24/2006 | 8:23 | 1542 | 1527 | 1534.5 | 1431 | 0.0579 | 26.37 |
| 214 | BEN | 2 | 628 | 1/24/2006 | 8:54 | 1/25/2006 | 9:00 | 1492 | 1546 | 1519 | 1446 | 0.0948 | 43.16 |
| 162 | CHA | 2 | 303 | 1/24/2006 | 9:27 | 1/25/2006 | 9:33 | 1467 | 1552 | 1509.5 | 1446 | 0.0849 | 38.90 |
| 219 | MAR | 2 | 587 | 1/24/2006 | 8:25 | 1/25/2006 | 8:34 | 1487 | 1546 | 1516.5 | 1448 | 0.0895 | 40.76 |
| 139 | BEN | 3 | 628 | 1/25/2006 | 9:06 | 1/26/2006 | 8:40 | 1516 | 1590 | 1553 | 1415 | 0.7880 | 358.6 |
| 144 | CHA | 3 | 303 | 1/25/2006 | 9:37 | 1/26/2006 | 9:16 | 1537 | 1577 | 1557 | 1420 | 0.8260 | 373.6 |
| 133 | MAR | 3 | 349 | 1/25/2006 | 8:37 | 1/26/2006 | 8:22 | 1513 | 1578 | 1545.5 | 1425 | 0.8670 | 393.7 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 132 | BEN | 1 | 1628 | 1/29/2006 | 8:52 | 1/30/2006 | 8:53 | 1554 | 1586 | 1570 | 1441 | 0.0743 | 32.84 |
| 135 | CHA | 1 | 301 | 1/29/2006 | 9:11 | 1/30/2006 | 9:23 | 1508 | 1558 | 1533 | 1452 | 0.0727 | 32.66 |
| 155 | MAR | 1 | 587 | 1/29/2006 | 8:31 | 1/30/2006 | 8:20 | 1570 | 1577 | 1573.5 | 1429 | 0.0767 | 34.11 |
| 136 | BEN | 2 | 317 | 1/30/2006 | 8:58 | 1/31/2006 | 8:50 | 1526 | 1547 | 1536.5 | 1432 | 0.0641 | 29.13 |
| 134 | CHA | 2 | 301 | 1/30/2006 | 9:27 | 1/31/2006 | 9:19 | 1519 | 1524 | 1521.5 | 1433 | 0.0619 | 28.39 |
| 166 | MAR | 2 | 587 | 1/30/2006 | 8:25 | 1/31/2006 | 8:24 | 1556 | 1553 | 1554.5 | 1439 | 0.0648 | 28.97 |
| 201 | BEN | 3 | 317 | 1/31/2006 | 8:57 | 2/1/2006 | 8:37 | 1500 | 1574 | 1537 | 1420 | 0.0675 | 30.93 |
| 207 | CHA | 3 | 301 | 1/31/2006 | 9:24 | 2/1/2006 | 9:02 | 1495 | 1545 | 1520 | 1419 | 0.0708 | 32.83 |
| 200 | MAR | 3 | 587 | 1/31/2006 | 8:28 | 2/1/2006 | 8:16 | 1544 | 1579 | 1561.5 | 1429 | 0.0738 | 33.07 |
| 230 | BEN | 1 | 317 | 2/8/2006 | 8:41 | 2/9/2006 | 8:51 | 1547 | 1560 | 1553.5 | 1451 | 0.0928 | 41.17 |
| 222 | CHA | 1 | 303 | 2/8/2006 | 9:08 | 2/9/2006 | 9:23 | 1489 | 1518 | 1503.5 | 1454 | trace | trace |
| 208 | MAR | 1 | 349 | 2/8/2006 | 8:13 | 2/9/2006 | 8:17 | 1501 | 1467 | 1484 | 1444 | 0.0958 | 44.71 |
| 227 | BEN | 2 | 628 | 2/9/2006 | 8:55 | 2/10/2006 | 8:45 | 1503 | 1560 | 1531.5 | 1431 | 0.1750 | 79.85 |
| 220 | CHA | 2 | 303 | 2/9/2006 | 9:27 | 2/10/2006 | 9:15 | 1533 | 1572 | 1552.5 | 1429 | 0.1750 | 78.88 |
| 229 | MAR | 2 | 587 | 2/9/2006 | 8:27 | 2/10/2006 | 8:17 | 1530 | 1520 | 1525 | 1429 | 0.1820 | 83.52 |
| 183 | BEN | 3 | 628 | 2/10/2006 | 8:50 | 2/11/2006 | 8:29 | 1492 | 1518 | 1505 | 1419 | 0.1340 | 62.75 |
| 184 | CHA | 3 | 301 | 2/10/2006 | 9:23 | 2/11/2006 | 9:14 | 1522 | 1529 | 1525.5 | 1436 | 0.1230 | 56.15 |
| 187 | MAR | 3 | 349 | 2/10/2006 | 8:23 | 2/11/2006 | 8:10 | 1500 | 1521 | 1510.5 | 1427 | 0.1370 | 63.56 |
| 234 | BEN | 1 | 628 | 2/15/2006 | 8:55 | 2/16/2006 | 8:51 | 1526 | 1541 | 1533.5 | 1436 | 0.0677 | 30.74 |
| 233 | CHA | 1 | 85 | 2/15/2006 | 9:31 | 2/16/2006 | 9:22 | 1547 | 1518 | 1532.5 | 1431 | trace | trace |
| 242 | MAR | 1 | 587 | 2/15/2006 | 8:28 | 2/16/2006 | 8:22 | 1472 | 1498 | 1485 | 1434 | 0.1390 | 65.27 |
| 237 | BEN | 2 | 203 | 2/16/2006 | 8:55 | 2/17/2006 | 8:49 | 1523 | 1510 | 1516.5 | 1434 | trace | trace |
| 235 | CHA | 2 | 269 | 2/16/2006 | 9:28 | 2/17/2006 | 9:29 | 1536 | 1542 | 1539 | 1443 | trace | trace |
| 236 | MAR | 2 | 365 | 2/16/2006 | 8:27 | 2/17/2006 | 8:18 | 1524 | 1536 | 1530 | 1433 | 0.0522 | 23.81 |
| 194 | BEN | 3 | 278 | 2/17/2006 | 8:53 | 2/18/2006 | 8:25 | 1526 | 1587 | 1556.5 | 1412 | 0.1020 | 46.41 |
| 182 | CHA | 3 | 269 | 2/17/2006 | 9:34 | 2/18/2006 | 8:55 | 1527 | 1509 | 1518 | 1401 | 0.1130 | 53.13 |
| 188 | MAR | 3 | 650 | 2/17/2006 | 8:22 | 2/18/2006 | 8:08 | 1507 | 1551 | 1529 | 1425 | 0.1050 | 48.19 |
| 253 | BEN | 1 | 278 | 2/21/2006 | 8:45 | 2/22/2006 | 8:45 | 1527 | 1580 | 1553.5 | 1441 | trace | trace |
| 244 | CHA | 1 | 85 | 2/21/2006 | 9:25 | 2/22/2006 | 9:15 | 1539 | 1573 | 1556 | 1430 | trace | trace |
| 255 | MAR | 1 | 650 | 2/21/2006 | 8:17 | 2/22/2006 | 8:19 | 1533 | 1512 | 1522.5 | 1443 | trace | trace |
| 254 | BEN | 2 | 203 | 2/22/2006 | 8:51 | 2/23/2006 | 8:53 | 1520 | 1597 | 1558.5 | 1443 | trace | trace |
| 273 | CHA | 2 | 85 | 2/22/2006 | 9:19 | 2/23/2006 | 9:21 | 1535 | 1598 | 1566.5 | 1442 | trace | trace |
| 267 | MAR | 2 | 365 | 2/22/2006 | 8:22 | 2/23/2006 | 8:23 | 1473 | 1482 | 1477.5 | 1441 | trace | trace |
| 198 | BEN | 3 | 278 | 2/23/2006 | 8:52 | 2/24/2006 | 8:42 | 1509 | 1517 | 1513 | 1426 | trace | trace |
| 191 | CHA | 3 | 85 | 2/23/2006 | 9:25 | 2/24/2006 | 9:04 | 1478 | 1475 | 1476.5 | 1420 | trace | trace |
| 190 | MAR | 3 | 365 | 2/23/2006 | 8:29 | 2/24/2006 | 8:23 | 1504 | 1494 | 1499 | 1435 | trace | trace |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 186 | BEN | 1 | 278 | 2/27/2006 | 8:51 | 2/28/2006 | 8:48 | 1479 | 1559 | 1519 | 1437 | trace | trace |
| 263 | CHA | 1 | 85 | 2/27/2006 | 9:13 | 2/28/2006 | 9:30 | 1492 | 1492 | 1492 | 1456 | trace | trace |
| 262 | MAR | 1 | 650 | 2/27/2006 | 8:23 | 2/28/2006 | 8:17 | 1500 | 1545 | 1522.5 | 1435 | trace | trace |
| 248 | BEN | 2 | 203 | 2/28/2006 | 8:56 | 2/29/06 | 8:50 | 1523 | 1558 | 1540.5 | 1431 | 0.0778 | 35.29 |
| 274 | CHA | 2 | 301 | 2/28/2006 | 9:35 | 2/29/06 | 9:26 | 1511 | 1498 | 1504.5 | 1431 | trace | trace |
| 276 | MAR | 2 | 650 | 2/28/2006 | 8:22 | 2/29/06 | 8:19 | 1508 | 1543 | 1525.5 | 1437 | 0.1080 | 49.27 |
| 193 | BEN | 3 | 278 | 3/1/2006 | 8:52 | 3/2/2006 | 8:42 | 1507 | 1504 | 1505.5 | 1430 | trace | trace |
| 269 | CHA | 3 | 301 | 3/1/2006 | 9:29 | 3/2/2006 | 9:19 | 1512 | 1524 | 1518 | 1430 | trace | trace |
| 264 | MAR | 3 | 365 | 3/1/2006 | 8:25 | 3/2/2006 | 8:15 | 1517 | 1523 | 1520 | 1430 | trace | trace |
| 308 | BEN | 1 | 278 | 3/5/2006 | 8:41 | 3/6/2006 | 8:54 | 1521 | 1547 | 1534 | 1453 | 0.2710 | 121.6 |
| 303 | CHA | 1 | 58 | 3/5/2006 | 9:04 | 3/6/2006 | 9:21 | 1510 | 1506 | 1508 | 1457 | 0.2550 | 116.1 |
| 291 | MAR | 1 | 365 | 3/5/2006 | 8:17 | 3/6/2006 | 8:24 | 1510 | 1534 | 1522 | 1447 | 0.1690 | 76.74 |
| 302 | BEN | 2 | 203 | 3/6/2006 | 9:00 | 3/7/2006 | 8:36 | 1514 | 1564 | 1539 | 1417 | 0.3390 | 155.5 |
| 300 | CHA | 2 | 85 | 3/6/2006 | 9:25 | 3/7/2006 | 9:14 | 1503 | 1499 | 1501 | 1429 | ND | nd |
| 322 | MAR | 2 | 650 | 3/6/2006 | 8:29 | 3/7/2006 | 8:10 | 1499 | 1578 | 1538.5 | 1421 | 0.7180 | 328.4 |
| 321 | BEN | 3 | 273 | 3/7/2006 | 8:40 | 3/8/2006 | 8:32 | 1514 | 1499 | 1506.5 | 1432 | 0.0766 | 35.51 |
| 293 | CHA | 3 | 301 | 3/7/2006 | 9:16 | 3/8/2006 | 9:06 | 1534 | 1530 | 1532 | 1430 | 0.0805 | 36.75 |
| 298 | MAR | 3 | 365 | 3/7/2006 | 8:14 | 3/8/2006 | 8:15 | 1531 | 1502 | 1516.5 | 1441 | 0.1020 | 46.68 |
| 275 | BEN | 1 | 203 | 3/12/2006 | 8:55 | 3/13/2006 | 8:43 | 1501 | 1532 | 1516.5 | 1428 | trace | trace |
| 309 | CHA | 1 | 85 | 3/12/2006 | 9:18 | 3/13/2006 | 9:10 | 1518 | 1483 | 1500.5 | 1432 | trace | trace |
| 246 | MAR | 1 | 650 | 3/12/2006 | 8:20 | 3/13/2006 | 8:12 | 1531 | 1547 | 1539 | 1433 | trace | trace |
| 279 | BEN | 2 | 203 | 3/13/2006 | 8:46 | 3/13/2006 | 8:42 | 1523 | 1547 | 1535 | 1436 | trace | trace |
| 282 | CHA | 2 | 85 | 3/13/2006 | 9:12 | 3/14/2006 | 9:05 | 1485 | 1460 | 1472.5 | 1433 | trace | trace |
| 258 | MAR | 2 | 650 | 3/13/2006 | 8:16 | 3/14/2006 | 8:09 | 1495 | 1564 | 1529.5 | 1434 | trace | trace |
| 314 | BEN | 3 | 203 | 3/14/2006 | 8:45 | 3/15/2006 | 8:34 | 1523 | 1544 | 1533.5 | 1430 | nd | nd |
| 249 | CHA | 3 | 301 | 3/14/2006 | 9:08 | 3/15/2006 | 8:57 | 1502 | 1480 | 1491 | 1430 | nd | nd |
| 315 | MAR | 3 | 365 | 3/14/2006 | 8:12 | 3/15/2006 | 8:17 | 1517 | 1506 | 1511.5 | 1446 | nd | nd |
| 290 | BEN | 1 | 203 | 3/22/2006 | 8:48 | 3/23/2006 | 8:59 | 1503 | 1584 | 1543.5 | 1452 | 0.0860 | 38.37 |
| 329 | CHA | 1 | 85 | 3/22/2006 | 9:17 | 3/23/2006 | 9:25 | 1493 | 1490 | 1491.5 | 1448 | 0.0985 | 45.61 |
| 313 | MAR | 1 | 650 | 3/22/2006 | 8:25 | 3/23/2006 | 8:25 | 1488 | 1564 | 1526 | 1440 | trace | trace |
| 301 | BEN | 2 | 278 | 3/23/2006 | 9:02 | 3/23/2006 | 8:49 | 1484 | 1565 | 1524.5 | 1427 | 0.0589 | 27.07 |
| 304 | CHA | 2 | 301 | 3/23/2006 | 9:28 | 3/24/2006 | 9:19 | 1517 | 1520 | 1518.5 | 1432 | 0.0560 | 25.75 |
| 320 | MAR | 2 | 349 | 3/23/2006 | 8:29 | 3/24/2006 | 8:17 | 1542 | 1504 | 1523 | 1427 | trace | trace |
| 352 | BEN | 3 | 203 | 3/24/2006 | 8:54 | 3/25/2006 | 8:39 | 1540 | 1506 | 1523 | 1426 | 0.1660 | 76.43 |
| 379 | CHA | 3 | 301 | 3/24/2006 | 9:24 | 3/25/2006 | 9:12 | 1501 | 1506 | 1503.5 | 1423 | trace | trace |
| 367 | MAR | 3 | 349 | 3/24/2006 | 8:21 | 3/25/2006 | 8:12 | 1524 | 1460 | 1492 | 1432 | 0.0512 | 23.96 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 327 | BEN | 1 | 203 | 3/29/2006 | 8:45 | 3/30/2006 | 8:51 | 1500 | 1568 | 1534 | 1446 | nd | nd |
| 340 | CHA | 1 | 301 | 3/29/2006 | 9:07 | 3/30/2006 | 9:24 | 1482 | 1555 | 1518.5 | 1458 | nd | nd |
| 380 | MAR | 1 | 650 | 3/29/2006 | 8:20 | 3/30/2006 | 8:15 | 1503 | 1530 | 1516.5 | 1435 | trace | trace |
| 287 | BEN | 2 | 203 | 3/30/2006 | 8:55 | 3/31/2006 | 8:55 | 1537 | 1520 | 1528.5 | 1440 | trace | trace |
| 343 | CHA | 2 | 85 | 3/30/2006 | 9:29 | 3/31/2006 | 9:23 | 1515 | 1518 | 1516.5 | 1435 | trace | trace |
| 347 | MAR | 2 | 650 | 3/30/2006 | 8:20 | 3/31/2006 | 8:26 | 1535 | 1539 | 1537 | 1437 | trace | trace |
| 348 | BEN | 3 | 203 | 3/31/2006 | 9:00 | 4/1/2006 | 9:01 | 1489 | 1571 | 1530 | 1441 | nd | nd |
| 353 | CHA | 3 | 301 | 3/31/2006 | 9:28 | 4/1/2006 | 9:23 | 1486 | 1567 | 1526.5 | 1435 | nd | nd |
| 350 | MAR | 3 | 349 | 3/31/2006 | 8:31 | 4/1/2006 | 8:21 | 1524 | 1551 | 1537.5 | 1430 | nd | nd |
| 363 | BEN | 1 | 278 | 4/4/2006 | 8:56 | 4/5/2006 | 9:19 | 1516 | 1526 | 1521 | 1463 | nd | nd |
| 342 | CHA | 1 | 301 | 4/4/2006 | 9:20 | 4/5/2006 | 9:48 | 1500 | 1509 | 1504.5 | 1468 | nd | nd |
| 365 | MAR | 1 | 650 | 4/4/2006 | 8:31 | 4/5/2006 | 8:46 | 1527 | 1496 | 1511.5 | 1455 | nd | nd |
| 349 | BEN | 2 | 203 | 4/5/2006 | 9:22 | 4/6/2006 | 9:02 | 1493 | 1520 | 1506.5 | 1420 | nd | nd |
| 378 | CHA | 2 | 85 | 4/5/2006 | 9:52 | 4/6/2006 | 9:43 | 1511 | 1498 | 1504.5 | 1430 | nd | nd |
| 386 | MAR | 2 | 650 | 4/5/200 | 8:51 | 4/6/2006 | 8:26 | 1506 | 1560 | 1533 | 1415 | nd | nd |
| 374 | BEN | 3 | 203 | 4/6/2006 | 9:08 | 4/7/2006 | 8:58 | 1495 | 1554 | 1524.5 | 1430 | nd | nd |
| 366 | CHA | 3 | 85 | 4/6/2006 | 9:47 | 4/7/2006 | 9:37 | 1504 | 1531 | 1517.5 | 1430 | nd | nd |
| 341 | MAR | 3 | 650 | 4/6/2006 | 8:31 | 4/7/2006 | 8:21 | 1538 | 1604 | 1571 | 1430 | nd | nd |
| 311 | BEN | 1 | 278 | 4/10/2006 | 9:00 | 4/11/2006 | 9:13 | 1537 | 1590 | 1563.5 | 1453 | trace | trace |
| 377 | CHA | 1 | 301 | 4/10/2006 | 9:20 | 4/11/2006 | 9:39 | 1507 | 1566 | 1536.5 | 1459 | trace | trace |
| 351 | MAR | 1 | 349 | 4/10/2006 | 8:38 | 4/11/2006 | 8:43 | 1530 | 1560 | 1545 | 1444 | trace | trace |
| 331 | BEN | 2 | 203 | 4/11/2006 | 9:18 | 4/12/2006 | 9:16 | 1536 | 1606 | 1571 | 1439 | nd | nd |
| 375 | CHA | 2 | 85 | 4/11/2006 | 9:43 | 4/12/2006 | 9:48 | 1520 | 1523 | 1521.5 | 1445 | 0.3090 | 140.5 |
| 423 | MAR | 2 | 349 | 4/11/2006 | 8:47 | 4/12/2006 | 8:50 | 1500 | 1552 | 1526 | 1444 | nd | nd |
| 384 | BEN | 3 | 628 | 4/12/2006 | 9:20 | 4/13/2006 | 9:10 | 1532 | 1557 | 1544.5 | 1430 | trace | trace |
| 436 | CHA | 3 | 301 | 4/12/2006 | 9:52 | 4/13/2006 | 9:42 | 1503 | 1516 | 1509.5 | 1430 | trace | trace |
| 387 | MAR | 3 | 650 | 4/12/2006 | 8:55 | 4/13/2006 | 8:47 | 1499 | 1453 | 1476 | 1431 | trace | trace |
| 431 | BEN | 1 | 203 | 4/17/2006 | 8:47 | 4/18/2006 | 9:03 | 1480 | 1513 | 1496.5 | 1457 | nd | nd |
| 430 | CHA | 1 | 301 | 4/17/2006 | 9:20 | 4/18/2006 | 9:28 | 1477 | 1489 | 1483 | 1450 | nd | nd |
| 337 | MAR | 1 | 650 | 4/17/2006 | 8:20 | 4/18/2006 | 8:29 | 1488 | 1461 | 1474.5 | 1450 | nd | nd |
| 334 | BEN | 2 | 628 | 4/18/2006 | 9:06 | 4/19/2006 | 8:49 | 1495 | 1509 | 1502 | 1423 | trace | trace |
| 451 | CHA | 2 | 301 | 4/18/2006 | 9:32 | 4/19/2006 | 9:17 | 1487 | 1565 | 1526 | 1425 | trace | trace |
| 457 | MAR | 2 | 650 | 4/18/2006 | 8:34 | 4/19/2006 | 8:20 | 1484 | 1462 | 1473 | 1426 | trace | trace |
| 450 | BEN | 3 | 628 | 4/19/2006 | 8:53 | 4/20/2006 | 8:50 | 1512 | 1518 | 1515 | 1437 | trace | trace |
| 427 | CHA | 3 | 301 | 4/19/2006 | 9:23 | 4/20/2006 | 9:30 | 1494 | 1586 | 1540 | 1430 | trace | trace |
| 442 | MAR | 3 | 650 | 4/19/2006 | 8:25 | 4/20/2006 | 8:23 | 1531 | 1593 | 1562 | 1438 | trace | trace |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 440 | BEN | 1 | 628 | 4/26/2006 | 8:48 | 4/27/2006 | 8:57 | 1542 | 1542 | 1542 | 1449 | trace | trace |
| 452 | CHA | 1 | 301 | 4/26/2006 | 9:08 | 4/27/2006 | 9:28 | 1504 | 1504 | 1504 | 1460 | trace | trace |
| 439 | MAR | 1 | 650 | 4/26/2006 | 8:22 | 4/27/2006 | 8:23 | 1524 | 1502 | 1513 | 1441 | trace | trace |
| 438 | BEN | 2 | 203 | 4/27/2006 | 9:02 | 4/28/2006 | 9:13 | 1852 | 1852 | 1852 | 1451 | trace | trace |
| 420 | CHA | 2 | 301 | 4/27/2006 | 9:30 | 4/28/2006 | 9:44 | 1996 | 1996 | 1996 | 1454 | trace | trace |
| 338 | MAR | 2 | 650 | 4/27/2006 | 8:30 | 4/28/2006 | 8:34 | 1510 | 1510 | 1510 | 1444 | trace | trace |
| 2005 | BEN | 3 | 628 | 4/28/2006 | 9:19 | 4/29/2006 | 8:35 | 1504 | 1544 | 1524 | 1390 | trace | trace |
| 2007 | CHA | 3 | 301 | 4/28/2006 | 9:48 | 4/29/2006 | 9:25 | 1506 | 1528 | 1517 | 1418 | trace | trace |
| 418 | MAR | 3 | 587 | 4/28/2006 | 8:40 | 4/29/2006 | 8:14 | 1531 | 1525 | 1528 | 1414 | trace | trace |
| 2006 | BEN | 1 | 628 | 5/2/2006 | 9:20 | 5/3/2006 | 9:11 | 1490 | 1481 | 1485.5 | 1431 | trace | trace |
| 2035 | CHA | 1 | 709 | 5/2/2006 | 9:42 | 5/3/2006 | 9:36 | 1542 | 1553 | 1547.5 | 1435 | trace | trace |
| 2027 | MAR | 1 | 587 | 5/2/2006 | 8:55 | 5/3/2006 | 8:46 | 1487 | 1486 | 1486.5 | 1430 | trace | trace |
| 2008 | BEN | 2 | 278 | 5/3/2006 | 9:16 | 5/4/2006 | 9:12 | 1519 | 1522 | 1520.5 | 1437 | 0.06 | 26.27 |
| 454 | CHA | 2 | 709 | 5/3/2006 | 9:41 | 5/4/2006 | 9:53 | 1518 | 1551 | 1534.5 | 1452 | 0.06 | 27.69 |
| 2003 | MAR | 2 | 587 | 5/3/2006 | 8:48 | 5/4/2006 | 8:38 | 1523 | 1477 | 1500 | 1430 | 0.06 | 28.11 |
| 2093 | BEN | 3 | 317 | 5/4/2006 | 9:18 | 5/5/2006 | 9:09 | 1504 | 1528 | 1516 | 1430 | nd | nd |
| 449 | CHA | 3 | 301 | 5/4/2006 | 9:59 | 5/5/2006 | 9:48 | 1517 | 1537 | 1527 | 1430 | trace | trace |
| 332 | MAR | 3 | 650 | 5/4/2006 | 8:44 | 5/5/2006 | 8:34 | 1504 | 1535 | 1519.5 | 1430 | trace | trace |
| 2059 | BEN | 1 | 628 | 5/8/2006 | 9:01 | 5/9/2006 | 9:35 | 1504 | 1522 | 1513 | 1474 | trace | trace |
| 2062 | CHA | 1 | 301 | 5/8/2006 | 9:26 | 5/9/2006 | 9:56 | 1509 | 1523 | 1516 | 1470 | trace | trace |
| 2083 | MAR | 1 | 650 | 5/8/2006 | 8:37 | 5/9/2006 | 9:13 | 1501 | 1492 | 1496.5 | 1477 | trace | trace |
| 444 | BEN | 2 | 628 | 5/9/2006 | 9:38 | 5/10/2006 | 9:38 | 1517 | 1518 | 1517.5 | 1440 | trace | trace |
| 434 | CHA | 2 | 709 | 5/9/2006 | 9:59 | 5/10/2006 | 9:56 | 1539 | 1578 | 1558.5 | 1437 | trace | trace |
| 2096 | MAR | 2 | 587 | 5/9/2006 | 9:17 | 5/10/2006 | 9:08 | 1521 | 1503 | 1512 | 1431 | trace | trace |
| 2081 | BEN | 3 | 628 | 5/10/2006 | 9:40 | 5/11/2006 | 9:29 | 1517 | 1527 | 1522 | 1430 | trace | trace |
| 2073 | CHA | 3 | 709 | 5/10/2006 | 9:59 | 5/11/2006 | 9:56 | 1531 | 1560 | 1545.5 | 1438 | trace | trace |
| 2069 | MAR | 3 | 587 | 5/10/2006 | 9:13 | 5/11/2006 | 9:03 | 1519 | 1513 | 1516 | 1430 | trace | trace |
| 2090 | BEN | 1 | 628 | 5/14/2006 | 8:49 | 5/15/2006 | 8:49 | 1495 | 1553 | 1524 | 1440 | 11.00 | 5012 |
| 2082 | CHA | 1 | 709 | 5/14/2006 | 9:10 | 5/15/2006 | 9:14 | 1526 | 1580 | 1553 | 1444 | 0.491 | 218.9 |
| 2063 | MAR | 1 | 587 | 5/14/2006 | 8:21 | 5/15/2006 | 8:17 | 1506 | 1463 | 1484.5 | 1436 | 1.170 | 548.8 |
| 2097 | BEN | 2 | 628 | 5/15/2006 | 8:51 | 5/16/2006 | 8:45 | 1516 | 1510 | 1513 | 1434 | 1.570 | 723.6 |
| 2074 | CHA | 2 | 709 | 5/15/2006 | 9:18 | 5/16/2006 | 9:26 | 1505 | 1525 | 1515 | 1449 | 0.1000 | 45.55 |
| 2052 | MAR | 2 | 349 | 5/15/2006 | 8:23 | 5/16/2006 | 8:20 | 1528 | 1585 | 1556.5 | 1438 | 0.0809 | 36.14 |
| 2078 | BEN | 3 | 278 | 5/16/2006 | 8:50 | 5/17/2006 | 8:41 | 1512 | 1574 | 1543 | 1431 | 0.0721 | 32.65 |
| 2065 | CHA | 3 | 709 | 5/16/2006 | 9:33 | 5/17/2006 | 9:17 | 1528 | 1579 | 1553.5 | 1423 | trace | trace |
| 2088 | MAR | 3 | 587 | 5/16/2006 | 8:23 | 5/17/2006 | 8:17 | 1488 | 1505 | 1496.5 | 1434 | 0.0650 | 30.29 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2079 | BEN | 1 | 278 | 5/22/2006 | 9:12 | 5/23/2006 | 9:16 | 1498 | 1619 | 1558.5 | 1444 | nd | nd |
| 2095 | CHA | 1 | 270 | 5/22/2006 | 9:34 | 5/23/2006 | 9:43 | 1504 | 1524 | 1514 | 1446 | nd | nd |
| 2098 | MAR | 1 | 349 | 5/22/2006 | 8:45 | 5/23/2006 | 8:35 | 1521 | 1497 | 1509 | 1430 | nd | nd |
| 2017 | BEN | 2 | 278 | 5/23/2006 | 9:21 | 5/24/2006 | 9:11 | 1523 | 1566 | 1544.5 | 1430 | nd | nd |
| 2085 | CHA | 2 | 709 | 5/23/2006 | 9:47 | 5/24/2006 | 9:47 | 1520 | 1556 | 1538 | 1440 | nd | nd |
| 2044 | MAR | 2 | 349 | 5/23/2006 | 8:42 | 5/24/2006 | 8:32 | 1509 | 1528 | 1518.5 | 1430 | nd | nd |
| 2067 | BEN | 3 | 278 | 5/24/2006 | 9:18 | 5/25/2006 | 9:26 | 1498 | 1539 | 1518.5 | 1446 | nd | nd |
| 2066 | CHA | 3 | 709 | 5/24/2006 | 9:51 | 5/25/2006 | 9:43 | 1518 | 1520 | 1519 | 1432 | nd | nd |
| 2040 | MAR | 3 | 587 | 5/24/2006 | 8:37 | 5/25/2006 | 9:01 | 1531 | 1488 | 1509.5 | 1464 | nd | nd |
| 2048 | BEN | 1 | 628 | 5/28/2006 | 8:50 | 5/29/2006 | 9:46 | 1482 | 1518 | 1500 | 1496 | nd | nd |
| 2018 | CHA | 1 | 709 | 5/28/2006 | 9:13 | 5/29/2006 | 10:13 | 1497 | 1557 | 1527 | 1501 | nd | nd |
| 2070 | MAR | 1 | 587 | 5/28/2006 | 8:21 | 5/29/2006 | 8:32 | 1483 | 1528 | 1505.5 | 1451 | nd | nd |
| 2022 | BEN | 2 | 628 | 5/29/2006 | 9:52 | 5/30/2006 | 9:55 | 1489 | 1565 | 1527 | 1443 | nd | nd |
| 2033 | CHA | 2 | 709 | 5/29/2006 | 10:18 | 5/30/2006 | 10:27 | 1515 | 1548 | 1531.5 | 1449 | nd | nd |
| 2054 | MAR | 2 | 587 | 5/29/2006 | 8:37 | 5/30/2006 | 8:43 | 1533 | 1433 | 1483 | 1446 | nd | nd |
| 2043 | BEN | 4 | 628 | 5/31/2006 | 9:58 | 6/1/2006 | 9:19 | 1519 | 1642 | 1580.5 | 1400 | nd | nd |
| 2038 | CHA | 4 | 82 | 5/31/2006 | 9:39 | 6/1/2006 | 8:54 | 1533 | 1573 | 1553 | 1395 | nd | nd |
| 2143 | MAR | 4 | 349 | 5/31/2006 | 10:26 | 6/1/2006 | 9:46 | 1496 | 1453 | 1474.5 | 1400 | nd | nd |
| 2122 | BEN | 1 | 628 | 6/7/2006 | 8:59 | 6/8/2006 | 8:53 | 1516 | 1580 | 1548 | 1434 | nd | nd |
| 2101 | CHA | 1 | 82 | 6/7/2006 | 9:29 | 6/8/2006 | 9:21 | 1514 | 1454 | 1484 | 1432 | nd | nd |
| 2124 | MAR | 1 | 349 | 6/7/2006 | 8:32 | 6/8/2006 | 8:22 | 1519 | 1612 | 1565.5 | 1430 | nd | nd |
| 2140 | BEN | 2 | 278 | 6/8/2006 | 8:58 | 6/9/2006 | 8:48 | 1524 | 1535 | 1529.5 | 1430 | trace | trace |
| 2126 | CHA | 2 | 82 | 6/8/2006 | 9:23 | 6/9/2006 | 9:13 | 1541 | 1546 | 1543.5 | 1430 | trace | trace |
| 2015 | MAR | 2 | 587 | 6/8/2006 | 8:27 | 6/9/2006 | 8:20 | 1491 | 1485 | 1488 | 1433 | trace | trace |
| 2046 | BEN | 3 | 628 | 6/9/2006 | 8:53 | 6/10/2006 | 8:43 | 1494 | 1512 | 1503 | 1430 | trace | trace |
| 2146 | CHA | 3 | 709 | 6/9/2006 | 9:17 | 6/10/2006 | 9:10 | 1517 | 1528 | 1522.5 | 1432 | trace | trace |
| 2002 | MAR | 3 | 349 | 6/9/2006 | 8:23 | 6/10/2006 | 8:13 | 1525 | 1481 | 1503 | 1430 | trace | trace |
| 2138 | MAR | 1 | 349 | 6/14/2006 | 8:21 | 6/15/2006 | 8:25 | 1489 | 1517 | 1503 | 1445 | nd | nd |
| 2119 | BEN | 1 | 278 | 6/14/2006 | 8:45 | 6/15/2006 | 8:55 | 1494 | 1523 | 1508.5 | 1450 | nd | nd |
| 2111 | CHA | 1 | 709 | 6/14/2006 | 9:10 | 6/15/2006 | 9:23 | 1500 | 1529 | 1514.5 | 1453 | trace | trace |
| 2107 | MAR | 2 | 587 | 6/15/2006 | 8:29 | 6/16/2006 | 8:20 | 1525 | 1512 | 1518.5 | 1431 | nd | nd |
| 2120 | BEN | 2 | 628 | 6/15/2006 | 8:59 | 6/16/2006 | 8:49 | 1527 | 1578 | 1552.5 | 1430 | trace | trace |
| 2144 | CHA | 2 | 709 | 6/15/2006 | 9:28 | 6/16/2006 | 9:16 | 1515 | 1550 | 1532.5 | 1427 | trace | trace |
| 2112 | MAR | 3 | 349 | 6/16/2006 | 8:25 | 6/17/2006 | 8:22 | 1500 | 1479 | 1489.5 | 1437 | trace | trace |
| 2134 | BEN | 3 | 278 | 6/16/2006 | 8:50 | 6/17/2006 | 8:44 | 1491 | 1501 | 1496 | 1434 | trace | trace |
| 2029 | CHA | 3 | 709 | 6/16/2006 | 9:18 | 6/17/2006 | 9:03 | 1530 | 1560 | 1545 | 1425 | trace | trace |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2100 | MAR | 1 | 349 | 6/20/2006 | 8:27 | 6/21/2006 | 9:10 | 1518 | 1480 | 1499 | 1488 | trace | trace |
| 2127 | BEN | 1 | 278 | 6/20/2006 | 8:54 | 6/21/2006 | 9:33 | 1500 | 1595 | 1547.5 | 1479 | trace | trace |
| 2105 | CHA | 1 | 82 | 6/20/2006 | 9:23 | 6/21/2006 | 10:02 | 1501 | 1586 | 1543.5 | 1479 | trace | trace |
| 2149 | MAR | 2 | 587 | 6/21/2006 | 9:13 | 6/22/2006 | 9:07 | 1507 | 1419 | 1463 | 1433 | trace | trace |
| 2114 | BEN | 2 | 628 | 6/21/2006 | 9:37 | 6/22/2006 | 9:33 | 1515 | 1548 | 1531.5 | 1436 | trace | trace |
| 2113 | CHA | 2 | 709 | 6/21/2006 | 10:06 | 6/22/2006 | 10:03 | 1517 | 1546 | 1531.5 | 1437 | trace | trace |
| 2151 | MAR | 3 | 587 | 6/22/2006 | 9:09 | 6/23/2006 | 9:55 | 1521 | 1456 | 1488.5 | 1486 | trace | trace |
| 2104 | BEN | 3 | 628 | 6/22/2006 | 9:38 | 6/23/2006 | 10:11 | 1521 | 1504 | 1512.5 | 1474 | trace | trace |
| 2129 | CHA | 3 | 82 | 6/22/2006 | 10:06 | 6/23/2006 | 10:29 | 1504 | 1507 | 1505.5 | 1462 | trace | trace |
| 2174 | BEN | 1 | 628 | 6/27/2006 | 8:41 | 6/28/2006 | 8:47 | 1520 | 1536 | 1528 | 1446 | trace | trace |
| 2147 | CHA | 1 | 84 | 6/27/2006 | 9:08 | 6/28/2006 | 9:11 | 1528 | 1524 | 1526 | 1442 | trace | trace |
| 2171 | MAR | 1 | 349 | 6/27/2006 | 8:18 | 6/28/2006 | 8:23 | 1515 | 1506 | 1510.5 | 1445 | trace | trace |
| 2168 | BEN | 2 | 628 | 6/28/2006 | 8:51 | 6/29/2006 | 8:55 | 1508 | 1549 | 1528.5 | 1445 | nd | nd |
| 2177 | CHA | 2 | 82 | 6/28/2006 | 9:14 | 6/29/2006 | 9:24 | 1504 | 1490 | 1497 | 1450 | nd | nd |
| 2175 | MAR | 2 | 349 | 6/28/2006 | 8:27 | 6/29/2006 | 8:30 | 1529 | 1531 | 1530 | 1443 | nd | nd |
| 2158 | BEN | 3 | 628 | 6/29/2006 | 8:58 | 6/30/2006 | 8:48 | 1533 | 1545 | 1539 | 1430 | trace | trace |
| 2154 | CHA | 3 | 84 | 6/29/2006 | 9:28 | 6/30/2006 | 9:18 | 1488 | 1472 | 1480 | 1430 | nd | nd |
| 2164 | MAR | 3 | 587 | 6/29/2006 | 8:35 | 6/30/2006 | 8:30 | 1496 | 1545 | 1520.5 | 1435 | trace | trace |
| 2165 | BEN | 1 | 628 | 7/3/2006 | 8:35 | 7/4/2006 | 9:21 | 1518 | 1545 | 1531.5 | 1486 | trace | trace |
| 2152 | CHA | 1 | 84 | 7/3/2006 | 9:02 | 7/4/2006 | 9:46 | 1515 | 1520 | 1517.5 | 1484 | nd | nd |
| 2157 | MAR | 1 | 349 | 7/3/2006 | 8:11 | 7/4/2006 | 8:19 | 1485 | 1453 | 1469 | 1449 | nd | nd |
| 2219 | BEN | 2 | 628 | 7/4/2006 | 9:26 | 7/5/2006 | 9:16 | 1521 | 1555 | 1538 | 1430 | nd | nd |
| 2210 | CHA | 2 | 82 | 7/4/2006 | 9:50 | 7/5/2006 | 9:46 | 1496 | 1530 | 1513 | 1436 | nd | nd |
| 2207 | MAR | 2 | 587 | 7/4/2006 | 8:23 | 7/5/2006 | 8:21 | 1519 | 1533 | 1526 | 1438 | nd | nd |
| 2208 | BEN | 3 | 278 | 7/5/2006 | 9:22 | 7/6/2006 | 9:12 | 1523 | 1503 | 1513 | 1430 | nd | nd |
| 2235 | CHA | 3 | 82 | 7/5/2006 | 9:51 | 7/6/2006 | 9:41 | 1505 | 1520 | 1512.5 | 1430 | trace | trace |
| 2185 | MAR | 3 | 349 | 7/5/2006 | 8:28 | 7/6/2006 | 8:31 | 1503 | 1494 | 1498.5 | 1443 | ND | nd |
| 2227 | BEN | 1 | 278 | 7/9/2006 | 10:02 | 7/10/2006 | 9:19 | 1499 | 1514 | 1506.5 | 1397 | trace | trace |
| 2211 | CHA | 1 | 82 | 7/9/2006 | 9:18 | 7/10/2006 | 9:44 | 1516 | 1514 | 1515 | 1466 | trace | trace |
| 2155 | MAR | 1 | 587 | 7/9/2006 | 8:36 | 7/10/2006 | 8:53 | 1502 | 1219 | 1360.5 | 1451 | trace | trace |
| 2170 | BEN | 2 | 628 | 7/10/2006 | 9:24 | 7/11/2006 | 9:20 | 1502 | 1518 | 1510 | 1436 | trace | trace |
| 2205 | CHA | 2 | 84 | 7/10/2006 | 9:48 | 7/11/2006 | 9:43 | 1501 | 1514 | 1507.5 | 1434 | trace | trace |
| 2237 | MAR | 2 | 587 | 7/10/2006 | 9:00 | 7/11/2006 | 8:55 | 1522 | 1494 | 1508 | 1436 | trace | trace |
| 2184 | BEN | 3 | 278 | 7/11/2006 | 9:26 | 7/12/2006 | 9:15 | 1508 | 1537 | 1522.5 | 1430 | nd | nd |
| 2222 | CHA | 3 | 82 | 7/11/2006 | 9:47 | 7/12/2006 | 9:37 | 1525 | 1508 | 1516.5 | 1430 | nd | nd |
| 2228 | MAR | 3 | 587 | 7/11/2006 | 8:59 | 7/12/2006 | 8:49 | 1510 | 1498 | 1504 | 1430 | nd | nd |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2199 | BEN | 1 | 682 | 7/16/2006 | 9:34 | 7/17/2006 | 8:50 | 1507 | 1531 | 1519 | 1414 | trace | trace |
| 2206 | CHA | 1 | 82 | 7/16/2006 | 9:04 | 7/17/2006 | 9:18 | 1533 | 1542 | 1537.5 | 1453 | trace | trace |
| 2239 | MAR | 1 | 587 | 7/16/2006 | 8:24 | 7/17/2006 | 8:19 | 1508 | 1483 | 1495.5 | 1436 | trace | trace |
| 2196 | BEN | 2 | 278 | 7/17/2006 | 8:56 | 7/18/2006 | 8:56 | 1493 | 1498 | 1495.5 | 1440 | trace | trace |
| 2233 | CHA | 2 | 82 | 7/17/2006 | 9:22 | 7/18/2006 | 9:26 | 1500 | 1482 | 1491 | 1444 | trace | trace |
| 2176 | MAR | 2 | 349 | 7/17/2006 | 8:24 | 7/18/2006 | 8:28 | 1500 | 1482 | 1491 | 1444 | trace | trace |
| 2212 | BEN | 3 | 278 | 7/18/2006 | 9:03 | 7/19/2006 | 8:54 | 1497 | 1506 | 1501.5 | 1432 | trace | trace |
| 2203 | CHA | 3 | 82 | 7/18/2006 | 9:30 | 7/19/2006 | 9:19 | 1515 | 1515 | 1515 | 1429 | trace | trace |
| 2230 | MAR | 3 | 349 | 7/18/2006 | 8:33 | 7/19/2006 | 8:36 | 1515 | 1511 | 1513 | 1443 | trace | trace |
| 2308 | BEN | 1 | 278 | 7/26/2006 | 8:59 | 7/27/2006 | 8:56 | 1514 | 1512 | 1513 | 1437 | 0.0583 | 26.81 |
| 2225 | CHA | 1 | 82 | 7/26/2006 | 9:20 | 7/27/2006 | 9:19 | 1545 | 1530 | 1537.5 | 1439 | 0.0587 | 26.53 |
| 2302 | MAR | 1 | 587 | 7/26/2006 | 8:27 | 7/27/2006 | 8:31 | 1516 | 1507 | 1511.5 | 433 | trace | trace |
| 2201 | BEN | 2 | 278 | 7/27/2006 | 8:59 | 7/28/2006 | 8:50 | 1528 | 1513 | 1520.5 | 1431 | trace | trace |
| 2327 | CHA | 2 | 84 | 7/27/2006 | 9:22 | 7/28/2006 | 9:15 | 1508 | 1473 | 1490.5 | 1432 | trace | trace |
| 2314 | MAR | 2 | 587 | 7/27/2006 | 8:35 | 7/28/2006 | 8:25 | 1507 | 1519 | 1513 | 1430 | trace | trace |
| 2192 | BEN | 3 | 278 | 7/28/2006 | 8:57 | 7/29/2006 | 8:47 | 1493 | 1473 | 1483 | 1430 | trace | trace |
| 2189 | CHA | 3 | 84 | 7/28/2006 | 9:20 | 7/29/2006 | 9:10 | 1492 | 1520 | 1506 | 1430 | trace | trace |
| 2194 | MAR | 3 | 349 | 7/28/2006 | 8:29 | 7/29/2006 | 8:19 | 1491 | 1402 | 1446.5 | 1430 | trace | trace |
| 2336 | BEN | 1 | 628 | 8/1/2006 | 8:58 | 8/2/2006 | 9:11 | 1523 | 1596 | 1559.5 | 1454 | trace | trace |
| 2193 | CHA | 1 | 82 | 8/1/2006 | 9:21 | 8/2/2006 | 9:35 | 1534 | 1572 | 1553 | 1450 | trace | trace |
| 2329 | MAR | 1 | 349 | 8/1/2006 | 8:27 | 8/2/2006 | 8:32 | 1536 | 1298 | 1417 | 1445 | trace | trace |
| 2331 | BEN | 2 | 278 | 8/2/2006 | 9:17 | 8/3/2006 | 9:07 | 1548 | 1502 | 1525 | 1430 | trace | trace |
| 2325 | CHA | 2 | 82 | 8/2/2006 | 9:41 | 8/3/2006 | 9:31 | 1530 | 1507 | 1518.5 | 1430 | trace | trace |
| 2335 | MAR | 2 | 365 | 8/2/2006 | 8:42 | 8/3/2006 | 8:32 | 1518 | 1511 | 1514.5 | 1430 | trace | trace |
| 2191 | BEN | 3 | 628 | 8/3/2006 | 9:14 | 8/4/2006 | 9:04 | 1543 | 1503 | 1523 | 1430 | trace | trace |
| 2316 | CHA | 3 | 84 | 8/3/2006 | 9:37 | 8/4/2006 | 9:27 | 1506 | 1549 | 1527.5 | 1430 | trace | trace |
| 2339 | MAR | 3 | 365 | 8/3/2006 | 8:36 | 8/4/2006 | 8:26 | 1537 | 1519 | 1528 | 1430 | trace | trace |
| 2311 | BEN | 1 | 628 | 8/8/2006 | 8:48 | 8/9/2006 | 8:42 | 1523 | 1511 | 1517 | 1434 | 0.0747 | 34.34 |
| 2301 | CHA | 1 | 82 | 8/8/2006 | 9:17 | 8/9/2006 | 9:07 | 1499 | 1512 | 1505.5 | 1430 | 0.0768 | 35.67 |
| 2307 | MAR | 1 | 214 | 8/8/2006 | 8:23 | 8/9/2006 | 8:19 | 1511 | 1533 | 1522 | 1437 | 0.0740 | 33.83 |
| 2313 | BEN | 2 | 628 | 8/9/2006 | 8:47 | 8/10/2006 | 8:49 | 1508 | 1544 | 1526 | 1443 | trace | trace |
| 2323 | CHA | 2 | 84 | 8/9/2006 | 9:13 | 8/10/2006 | 9:23 | 1521 | 1533 | 1527 | 1450 | trace | trace |
| 2310 | MAR | 2 | 365 | 8/9/2006 | 8:24 | 8/10/2006 | 8:25 | 1494 | 1532 | 1513 | 1441 | trace | trace |
| 2374 | BEN | 3 | 628 | 8/10/2006 | 8:54 | 8/11/2006 | 8:46 | 1526 | 1539 | 1532.5 | 1432 | 0.0605 | 27.57 |
| 2195 | CHA | 3 | 82 | 8/10/2006 | 9:28 | 8/11/2006 | 9:19 | 1496 | 1468 | 1482 | 1430 | 0.0500 | 23.59 |
| 2363 | MAR | 3 | 365 | 8/10/2006 | 8:29 | 8/11/2006 | 8:19 | 1533 | 1503 | 1518 | 1430 | 0.0533 | 24.55 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2389 | BEN | 1 | 628 | 8/14/2006 | 8:58 | 8/15/2006 | 8:53 | 1500 | 1482 | 1491 | 1435 | trace | trace |
| 2366 | CHA | 1 | 82 | 8/14/2006 | 9:25 | 8/15/2006 | 9:26 | 1523 | 1537 | 1530 | 1441 | trace | trace |
| 2367 | MAR | 1 | 214 | 8/14/2006 | 8:32 | 8/15/2006 | 8:31 | 1540 | 1535 | 1537.5 | 1439 | trace | trace |
| 2187 | BEN | 2 | 278 | 8/15/2006 | 8:59 | 8/16/2006 | 9:07 | 1520 | 1495 | 1507.5 | 1448 | trace | trace |
| 2359 | CHA | 2 | 84 | 8/15/2006 | 9:32 | 8/16/2006 | 9:45 | 1505 | 1460 | 1482.5 | 1453 | trace | trace |
| 2378 | MAR | 2 | 214 | 8/15/2006 | 8:35 | 8/16/2006 | 8:36 | 1539 | 1556 | 1547.5 | 1442 | trace | trace |
| 2350 | BEN | 3 | 278 | 8/16/2006 | 9:16 | 8/17/2006 | 9:10 | 1529 | 1491 | 1510 | 1435 | trace | trace |
| 2348 | CHA | 3 | 84 | 8/16/2006 | 9:50 | 8/17/2006 | 9:40 | 1522 | 1494 | 1508 | 1430 | trace | trace |
| 2351 | MAR | 3 | 214 | 8/16/2006 | 8:46 | 8/17/2006 | 8:47 | 1509 | 1546 | 1527.5 | 1441 | trace | trace |
| 2361 | BEN | 1 | 317 | 8/21/2006 | 8:58 | 8/22/2006 | 9:00 | 1534 | 1563 | 1548.5 | 1442 | trace | trace |
| 2368 | CHA | 1 | 84 | 8/21/2006 | 9:27 | 8/22/2006 | 9:34 | 1526 | 1526 | 1526 | 1446 | trace | trace |
| 2384 | MAR | 1 | 214 | 8/21/2006 | 8:30 | 8/22/2006 | 8:29 | 1528 | 1495 | 1511.5 | 1440 | trace | trace |
| 2380 | BEN | 2 | 317 | 8/22/2006 | 9:06 | 8/23/2006 | 8:55 | 1534 | 1564 | 1549 | 1430 | trace | trace |
| 2379 | CHA | 2 | 82 | 8/22/2006 | 9:40 | 8/23/2006 | 9:30 | 1531 | 1524 | 1527.5 | 1430 | trace | trace |
| 2356 | MAR | 2 | 365 | 8/22/2006 | 8:36 | 8/23/2006 | 8:26 | 1515 | 1523 | 1519 | 1432 | trace | trace |
| 2373 | BEN | 3 | 317 | 8/23/2006 | 9:00 | 8/24/2006 | 8:59 | 1493 | 1500 | 1496.5 | 1439 | trace | trace |
| 2375 | CHA | 3 | 84 | 8/23/2006 | 9:34 | 8/24/2006 | 9:26 | 1500 | 1488 | 1494 | 1431 | trace | trace |
| 2388 | MAR | 3 | 214 | 8/23/2006 | 8:32 | 8/24/2006 | 8:27 | 1506 | 1512 | 1509 | 1436 | trace | trace |
| 2430 | BEN | 1 | 317 | 8/27/2006 | 8:30 | 8/28/2006 | 8:20 | 1494 | 1533 | 1513.5 | 1430 | trace | trace |
| 2436 | CHA | 1 | 82 | 8/27/2006 | 8:59 | 8/28/2006 | 8:49 | 1530 | 1518 | 1524 | 1430 | nd | nd |
| 2435 | MAR | 1 | 214 | 8/27/2006 | 8:03 | 8/28/2006 | 7:52 | 1494 | 1514 | 1504 | 1430 | trace | trace |
| 2362 | BEN | 2 | 217 | 8/28/2006 | 8:24 | 8/29/2006 | 8:16 | 1492 | 1510 | 1501 | 1432 | trace | trace |
| 2406 | CHA | 2 | 84 | 8/28/2006 | 8:52 | 8/29/2006 | 8:42 | 1526 | 1492 | 1509 | 1430 | trace | trace |
| 2340 | MAR | 2 | 365 | 8/28/2006 | 7:58 | 8/29/2006 | 7:53 | 1523 | 1538 | 1530.5 | 1435 | trace | trace |
| 2423 | BEN | 3 | 317 | 8/29/2006 | 8:21 | 8/30/2006 | 8:50 | 1491 | 1517 | 1504 | 1466 | trace | trace |
| 2383 | CHA | 3 | 84 | 8/29/2006 | 8:46 | 8/30/2006 | 9:05 | 1511 | 1510 | 1510.5 | 1453 | trace | trace |
| 2405 | MAR | 3 | 365 | 8/29/2006 | 7:58 | 8/30/2006 | 8:25 | 1524 | 1528 | 1526 | 1472 | trace | trace |
| 2341 | BEN | 1 | 317 | 9/6/2006 | 8:14 | 9/7/2006 | 8:25 | 1493 | 1503 | 1498 | 1451 | trace | trace |
| 2431 | CHA | 1 | 82 | 9/6/2006 | 8:37 | 9/7/2006 | 8:53 | 1504 | 1533 | 1518.5 | 1455 | trace | trace |
| 2404 | MAR | 1 | 365 | 9/6/2006 | 7:49 | 9/7/2006 | 7:55 | 1501 | 1547 | 1524 | 1446 | trace | trace |
| 2433 | BEN | 2 | 190 | 9/7/2006 | 8:32 | 9/8/2006 | 8:29 | 1520 | 1496 | 1508 | 1438 | trace | trace |
| 2408 | CHA | 2 | 82 | 9/7/2006 | 8:59 | 9/8/2006 | 9:01 | 1530 | 1521 | 1525.5 | 1442 | trace | trace |
| 2395 | MAR | 2 | 214 | 9/7/2006 | 8:03 | 9/8/2006 | 7:53 | 1520 | 1491 | 1505.5 | 1430 | trace | trace |
| 2421 | BEN | 3 | 317 | 9/8/2006 | 8:38 | 9/9/2006 | 8:28 | 1494 | 1543 | 1518.5 | 1430 | trace | trace |
| 2399 | CHA | 3 | 82 | 9/8/2006 | 9:05 | 9/9/2006 | 9:03 | 1498 | 1468 | 1483 | 1439 | trace | trace |
| 2414 | MAR | 3 | 214 | 9/8/2006 | 8:04 | 9/9/2006 | 7:53 | 1502 | 1506 | 1504 | 1430 | trace | trace |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2393 | BEN | 1 | 317 | 9/12/2006 | 8:10 | 9/13/2006 | 8:01 | 1536 | 1556 | 1546 | 1431 | trace | trace |
| 2428 | CHA | 1 | 82 | 9/12/2006 | 8:36 | 9/13/2006 | 8:30 | 1492 | 1494 | 1493 | 1433 | trace | trace |
| 2401 | MAR | 1 | 365 | 9/12/2006 | 7:49 | 9/13/2006 | 7:39 | 1525 | 1517 | 1521 | 1430 | trace | trace |
| 2398 | BEN | 2 | 75 | 9/13/2006 | 8:07 | 9/14/2006 | 8:05 | 1525 | 1536 | 1530.5 | 1438 | trace | trace |
| 2394 | CHA | 2 | 84 | 9/13/2006 | 8:35 | 9/14/2006 | 8:33 | 1516 | 1514 | 1515 | 1438 | trace | trace |
| 2392 | MAR | 2 | 214 | 9/13/2006 | 7:42 | 9/14/2006 | 7:40 | 1529 | 1535 | 1532 | 1438 | trace | trace |
| 2420 | BEN | 3 | 75 | 9/14/2006 | 8:09 | 9/15/2006 | 8:03 | 1543 | 1541 | 1542 | 1435 | nd | nd |
| 2425 | CHA | 3 | 82 | 9/14/2006 | 8:42 | 9/15/2006 | 8:33 | 1493 | 1511 | 1502 | 1430 | nd | nd |
| 2400 | MAR | 3 | 214 | 9/14/2006 | 7:44 | 9/15/2006 | 7:41 | 1509 | 1522 | 1515.5 | 1437 | nd | nd |
| 2459 | BEN | 1 | 75 | 9/19/2006 | 8:59 | 9/20/2006 | 8:59 | 1519 | 1534 | 1526.5 | 1440 | trace | trace |
| 2445 | CHA | 1 | 82 | 9/19/2006 | 8:32 | 9/20/2006 | 8:21 | 1516 | 1529 | 1522.5 | 1438 | nd | nd |
| 2442 | MAR | 1 | 214 | 9/19/2006 | 7:41 | 9/20/2006 | 7:35 | 1522 | 1537 | 1529.5 | 1435 | nd | nd |
| 2437 | BEN | 2 | 317 | 9/20/2006 | 8:03 | 9/21/2006 | 8:09 | 1538 | 1557 | 1547.5 | 1446 | trace | trace |
| 2441 | CHA | 2 | 82 | 9/20/2006 | 8:25 | 9/21/2006 | 8:31 | 1524 | 1566 | 1545 | 1446 | nd | nd |
| 2448 | MAR | 2 | 365 | 9/20/2006 | 7:39 | 9/21/2006 | 7:43 | 1545 | 1534 | 1539.5 | 1444 | nd | nd |
| 2450 | BEN | 3 | 75 | 9/21/2006 | 8:14 | 9/22/2006 | 8:03 | 1526 | 1529 | 1527.5 | 1430 | trace | trace |
| 2456 | CHA | 3 | 84 | 9/21/2006 | 8:36 | 9/22/2006 | 8:26 | 1535 | 1517 | 1526 | 1430 | trace | trace |
| 2469 | MAR | 3 | 365 | 9/21/2006 | 7:50 | 9/22/2006 | 7:40 | 1511 | 1543 | 1527 | 1430 | trace | trace |
| 2476 | BEN | 1 | 317 | 9/25/2006 | 8:02 | 9/26/2006 | 8:05 | 1523 | 1542 | 1532.5 | 1444 | 0.053 | 23.81 |
| 2461 | CHA | 1 | 82 | 9/25/2006 | 8:19 | 9/26/2006 | 8:29 | 1518 | 1539 | 1528.5 | 1450 | 0.050 | 22.56 |
| 2468 | MAR | 1 | 214 | 9/25/2006 | 7:41 | 9/26/2006 | 7:25 | 1515 | 1513 | 1514 | 1436 | trace | trace |
| 2457 | BEN | 2 | 75 | 9/26/2006 | 8:09 | 9/27/2006 | 8:00 | 1496 | 1487 | 1491.5 | 1430 | 0.149 | 69.86 |
| 2471 | CHA | 2 | 84 | 9/26/2006 | 8:32 | 9/27/2006 | 8:37 | 1502 | 1528 | 1515 | 1444 | 0.147 | 67.20 |
| 2458 | MAR | 2 | 214 | 9/26/2006 | 7:44 | 9/17/2006 | 7:34 | 1502 | 1516 | 1509 | 1430 | 0.147 | 68.12 |
| 2453 | BEN | 3 | 75 | 9/27/2006 | 8:10 | 9/28/2006 | 8:00 | 1527 | 1569 | 1548 | 1430 | 0.054 | 24.17 |
| 2481 | CHA | 3 | 84 | 9/27/2006 | 8:42 | 9/28/2006 | 8:32 | 1530 | 1555 | 1542.5 | 1430 | 0.061 | 27.79 |
| 2472 | MAR | 3 | 214 | 9/27/2006 | 7:39 | 9/28/2006 | 7:38 | 1497 | 1529 | 1513 | 1440 | 0.062 | 28.55 |
| 2478 | BEN | 1 | 317 | 10/1/2006 | 8:01 | 10/2/2006 | | 1503 | 1561 | 1532 | 1460 | trace | trace |
| 2475 | CHA | 1 | 82 | 10/1/2006 | 8:24 | 10/2/2006 | 8:41 | 1512 | 1535 | 1523.5 | 1457 | trace | trace |
| 2464 | MAR | 1 | 365 | 10/1/2006 | 7:31 | 10/2/2006 | 7:52 | 1526 | 1557 | 1541.5 | 1462 | trace | trace |
| 2482 | BEN | 2 | 75 | 10/2/2006 | 8:24 | 10/3/2006 | 8:13 | 1516 | 1538 | 1527 | 1430 | 0.086 | 39.16 |
| 2463 | CHA | 2 | 82 | 10/2/2006 | 8:45 | 10/3/2006 | 8:35 | 1507 | 1504 | 1505.5 | 1430 | 0.099 | 45.85 |
| 2462 | MAR | 2 | 365 | 10/2/2006 | 7:56 | 10/3/2006 | 7:48 | 1505 | 1513 | 1509 | 1433 | 0.095 | 43.98 |
| 2506 | BEN | 3 | 75 | 10/3/2006 | 8:16 | 10/4/2006 | 8:06 | 1501 | 1491 | 1496 | 1430 | 0.057 | 26.50 |
| 2528 | CHA | 3 | 82 | 10/3/2006 | 8:37 | 10/4/2006 | 8:27 | 1524 | 1540 | 1532 | 1430 | 0.065 | 29.62 |
| 2485 | MAR | 3 | 214 | 10/3/2006 | 7:51 | 10/4/2006 | 7:41 | 1523 | 1537 | 1530 | 1430 | 0.071 | 32.45 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2517 | BEN | 1 | 75 | 10/8/2006 | 8:07 | 10/9/2006 | 8:09 | 1526 | 1523 | 1524.5 | 1443 | trace | trace |
| 2534 | CHA | 1 | 82 | 10/8/2006 | 8:39 | 10/9/2006 | 8:30 | 1500 | 1509 | 1504.5 | 1430 | trace | trace |
| 2520 | MAR | 1 | 365 | 10/8/2006 | 7:45 | 10/9/2006 | 7:46 | 1505 | 1513 | 1509 | 1442 | trace | trace |
| 2525 | BEN | 2 | 317 | 10/9/2006 | 8:14 | 10/10/2006 | 8:04 | 1499 | 1524 | 1511.5 | 1430 | trace | trace |
| 2496 | CHA | 2 | 82 | 10/9/2006 | 8:34 | 10/10/2006 | 8:24 | 1507 | 1511 | 1509 | 1430 | trace | trace |
| 2499 | MAR | 2 | 365 | 10/9/2006 | 7:51 | 10/10/2006 | 7:42 | 1509 | 1497 | 1503 | 1432 | trace | trace |
| 2522 | BEN | 3 | 317 | 10/10/2006 | 8:06 | 10/11/2006 | 7:56 | 1507 | 1506 | 1506.5 | 1430 | 0.062 | 28.64 |
| 2529 | CHA | 3 | 84 | 10/10/2006 | 8:26 | 10/11/2006 | 8:18 | 1515 | 1520 | 1517.5 | 1431 | 0.067 | 30.99 |
| 2537 | MAR | 3 | 365 | 10/10/2006 | 7:46 | 10/11/2006 | 7:36 | 1497 | 1513 | 1505 | 1430 | 0.057 | 26.39 |
| 2510 | BEN | 1 | 75 | 10/18/2006 | 8:09 | 10/19/2006 | 8:11 | 1525 | 1524 | 1524.5 | 1442 | trace | trace |
| 2492 | CHA | 1 | 52 | 10/18/2006 | 8:35 | 10/19/2006 | 8:37 | 1496 | 1504 | 1500 | 1442 | trace | trace |
| 2539 | MAR | 1 | 214 | 10/18/2006 | 7:39 | 10/19/2006 | 7:43 | 1502 | 1565 | 1533.5 | 1445 | trace | trace |
| 2516 | BEN | 2 | 75 | 10/19/2006 | 8:17 | 10/20/2006 | 8:06 | 1510 | 1513 | 1511.5 | 1430 | trace | trace |
| 2535 | CHA | 2 | 84 | 10/19/2006 | 8:42 | 10/20/2006 | 8:33 | 1523 | 1575 | 1549 | 1430 | trace | trace |
| 2527 | MAR | 2 | 365 | 10/19/2006 | 7:48 | 10/20/2006 | 7:38 | 1525 | 1537 | 1531 | 1430 | trace | trace |
| 2524 | BEN | 3 | 75 | 10/20/2006 | 8:09 | 10/21/2006 | 7:58 | 1526 | 1511 | 1518.5 | 1430 | trace | trace |
| 2512 | CHA | 3 | 82 | 10/20/2006 | 8:34 | 10/21/2006 | 8:34 | 1530 | 1529 | 1529.5 | 1430 | trace | trace |
| 2526 | MAR | 3 | 365 | 10/20/2006 | 7:39 | 10/21/2006 | 7:39 | 1535 | 1519 | 1527 | 1440 | trace | trace |
| 2538 | BEN | 1 | 75 | 10/24/2006 | 7:57 | 10/28/2006 | 8:05 | 1527 | 1517 | 1522 | 1448 | trace | trace |
| 2532 | CHA | 1 | 82 | 10/24/2006 | 8:15 | 10/25/2006 | 8:27 | 1517 | 1510 | 1513.5 | 1452 | trace | trace |
| 2495 | MAR | 1 | 365 | 10/24/2006 | 7:35 | 10/25/2006 | 7:38 | 1538 | 1539 | 1538.5 | 1443 | trace | trace |
| 2633 | BEN | 2 | 75 | 10/25/2006 | 8:09 | 10/26/2006 | 8:17 | 1499 | 1511 | 1505 | 1449 | trace | trace |
| 2637 | CHA | 2 | 82 | 10/25/2006 | 8:33 | 10/26/2006 | 8:43 | 1506 | 1536 | 1521 | 1450 | trace | trace |
| 2631 | MAR | 2 | 367 | 10/25/2006 | 7:43 | 10/26/2006 | 7:50 | 1512 | 1524 | 1518 | 1439 | trace | trace |
| 2505 | BEN | 3 | 317 | 10/26/2006 | 8:23 | 10/27/2006 | 8:13 | 1534 | 1555 | 1544.5 | 1430 | trace | trace |
| 2635 | CHA | 3 | 82 | 10/26/2006 | 8:48 | 10/27/2006 | 8:38 | 1538 | 1530 | 1534 | 1430 | trace | trace |
| 2639 | MAR | 3 | 214 | 10/26/2006 | 7:56 | 10/27/2006 | 7:46 | 1525 | 1526 | 1525.5 | 1430 | trace | trace |
| 2619 | BEN | 1 | 75 | 10/29/2006 | 8:03 | 10/30/2006 | 7:55 | 1523 | 1495 | 1509 | 1432 | 0.154 | 71.27 |
| 2622 | CHA | 1 | 84 | 10/29/2006 | 8:28 | 10/30/2006 | 8:18 | 1506 | 1528 | 1517 | 1430 | 0.160 | 73.76 |
| 2638 | MAR | 1 | 367 | 10/29/2006 | 7:39 | 10/30/2006 | 7:34 | 1525 | 1526 | 1525.5 | 1435 | 0.155 | 70.81 |
| 2615 | BEN | 2 | 317 | 10/30/2006 | 8:01 | 10/31/2006 | 7:59 | 1508 | 1579 | 1543.5 | 1438 | 0.064 | 28.92 |
| 2634 | CHA | 2 | 82 | 10/30/2006 | 8:21 | 10/31/2006 | 8:18 | 1501 | 1508 | 1504.5 | 1437 | 0.067 | 31.13 |
| 2620 | MAR | 2 | 367 | 10/30/2006 | 7:38 | 10/31/2006 | 7:36 | 1493 | 1530 | 1511.5 | 1438 | 0.063 | 29.17 |
| 2624 | BEN | 3 | 317 | 10/31/2006 | 8:01 | 11/1/2006 | 8:04 | 1519 | 1500 | 1509.5 | 1443 | 0.051 | 23.60 |
| 2610 | CHA | 3 | 82 | 10/31/2006 | 8:21 | 11/1/2006 | 8:22 | 1508 | 1513 | 1510.5 | 1441 | 0.058 | 26.42 |
| 2606 | MAR | 3 | 214 | 10/31/2006 | 7:39 | 11/1/2006 | 7:45 | 1509 | 1516 | 1512.5 | 1446 | 0.054 | 24.69 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2596 | BEN | 1 | 317 | 11/6/2006 | 8:08 | 11/7/2006 | 7:58 | 1499 | 1511 | 1505 | 1430 | trace | trace |
| 2605 | CHA | 1 | 82 | 11/6/2006 | 8:33 | 11/7/2006 | 8:23 | 1532 | 1553 | 1542.5 | 1430 | trace | trace |
| 2611 | MAR | 1 | 214 | 11/6/2006 | 7:45 | 11/7/2006 | 7:35 | 1496 | 1536 | 1516 | 1430 | trace | trace |
| 2609 | BEN | 2 | 317 | 11/7/2006 | 8:00 | 11/8/2006 | 8:00 | 1491 | 1525 | 1508 | 1440 | trace | trace |
| 2628 | CHA | 2 | 82 | 11/7/2006 | 8:27 | 11/8/2006 | 8:24 | 1517 | 1511 | 1514 | 1437 | trace | trace |
| 2591 | MAR | 2 | 367 | 11/7/2006 | 7:37 | 11/8/2006 | 7:37 | 1534 | 1550 | 1542 | 1440 | trace | trace |
| 2603 | BEN | 3 | 76 | 11/8/2006 | 8:04 | 11/9/2006 | 8:09 | 1514 | 1505 | 1509.5 | 1446 | trace | trace |
| 2592 | CHA | 3 | 82 | 11/8/2006 | 8:27 | 11/9/2006 | 8:39 | 1519 | 1469 | 1494 | 1452 | trace | trace |
| 2602 | MAR | 3 | 214 | 11/8/2006 | 7:42 | 11/9/2006 | 7:38 | 1536 | 1545 | 1540.5 | 1438 | trace | trace |
| 2608 | BEN | 1 | 317 | 11/13/2006 | 8:04 | 11/14/2006 | 7:59 | 1511 | 1544 | 1527.5 | 1435 | 0.055 | 25.09 |
| 2583 | CHA | 1 | 82 | 11/13/2006 | 8:28 | 11/14/2006 | 8:20 | 1514 | 1500 | 1507 | 1432 | 0.052 | 24.00 |
| 2558 | MAR | 1 | 367 | 11/13/2006 | 7:43 | 11/14/2006 | 7:37 | 1511 | 1551 | 1531 | 1434 | 0.054 | 24.78 |
| 2574 | BEN | 2 | 75 | 11/14/2006 | 8:01 | 11/15/2006 | 7:54 | 1525 | 1460 | 1492.5 | 1433 | trace | trace |
| 2585 | CHA | 2 | 82 | 11/14/2006 | 8:24 | 11/15/2006 | 8:22 | 1530 | 1500 | 1515 | 1438 | trace | trace |
| 2575 | MAR | 2 | 367 | 11/14/2006 | 7:42 | 11/15/2006 | 7:32 | 1503 | 1494 | 1498.5 | 1430 | trace | trace |
| 2555 | BEN | 3 | 75 | 11/15/2006 | 7:58 | 11/16/2006 | 8:01 | 1531 | 1542 | 1536.5 | 1443 | trace | trace |
| 2564 | CHA | 3 | 82 | 11/15/2006 | 8:26 | 11/16/2006 | 8:18 | 1497 | 1519 | 1508 | 1432 | trace | trace |
| 2588 | MAR | 3 | 214 | 11/15/2006 | 7:36 | 11/16/2006 | 7:42 | 1523 | 1568 | 1545.5 | 1447 | trace | trace |
| 2570 | BEN | 1 | 75 | 11/19/2006 | 8:04 | 11/20/2006 | 8:07 | 1501 | 1449 | 1475 | 1443 | 0.106 | 49.80 |
| 2566 | CHA | 1 | 82 | 11/19/2006 | 8:33 | 11/20/2006 | 8:26 | 1511 | 1503 | 1507 | 1433 | 0.116 | 53.72 |
| 2562 | MAR | 1 | 367 | 11/19/2006 | 7:39 | 11/12/2006 | 7:42 | 1535 | 1581 | 1558 | 1443 | 0.096 | 42.48 |
| 2569 | BEN | 2 | 317 | 11/20/2006 | 8:12 | 11/21/2006 | 8:04 | 1513 | 1545 | 1529 | 1432 | 0.099 | 45.22 |
| 2546 | CHA | 2 | 84 | 11/20/2006 | 8:30 | 11/21/2006 | 8:27 | 1499 | 1490 | 1494.5 | 1437 | 0.090 | 41.91 |
| 2587 | MAR | 2 | 214 | 11/20/2006 | 7:46 | 11/21/2006 | 7:43 | 1534 | 1535 | 1534.5 | 1437 | 0.094 | 42.58 |
| 2553 | BEN | 3 | 75 | 11/21/2006 | 8:08 | 11/22/2006 | 7:57 | 1536 | 1528 | 1532 | 1430 | 0.078 | 35.56 |
| 2545 | CHA | 3 | 71 | 11/21/2006 | 8:29 | 11/22/2006 | 8:09 | 1519 | 1500 | 1509.5 | 1420 | 0.076 | 35.36 |
| 2557 | MAR | 3 | 367 | 11/21/2006 | 7:45 | 11/22/2006 | 7:43 | 1528 | 1503 | 1515.5 | 1438 | 0.080 | 36.57 |
| 2576 | BEN | 1 | 317 | 11/29/2006 | 8:09 | 11/30/2006 | 8:11 | 1507 | 1468 | 1487.5 | 1443 | trace | trace |
| 2549 | CHA | 1 | 82 | 11/29/2006 | 8:31 | 11/30/2006 | 8:33 | 1523 | 1506 | 1514.5 | 1442 | 0.051 | 23.31 |
| 2577 | MAR | 1 | 214 | 11/29/2006 | 7:49 | 11/30/2006 | 7:46 | 1520 | 1509 | 1514.5 | 1438 | trace | trace |
| 2560 | BEN | 2 | 75 | 11/30/2006 | 8:16 | 12/1/2006 | 9:59 | 1536 | 1565 | 1550.5 | 1544 | trace | trace |
| 2578 | CHA | 2 | 82 | 11/30/2006 | 8:37 | 12/1/2006 | 10:23 | 1492 | 1515 | 1503.5 | 1545 | trace | trace |
| 2561 | MAR | 2 | 214 | 11/30/2006 | 7:51 | 12/1/2006 | 7:42 | 1517 | 1523 | 1520 | 1431 | trace | trace |
| 2776 | BEN | 3 | 76 | 12/1/2006 | 10:03 | 12/2/2006 | 9:54 | 1539 | 1554 | 1546.5 | 1432 | 0.119 | 53.73 |
| 2823 | CHA | 3 | 71 | 12/1/2006 | 10:27 | 12/2/2006 | 10:17 | 1523 | 1556 | 1539.5 | 1430 | 0.134 | 60.87 |
| 2571 | MAR | 3 | 214 | 12/1/2006 | 7:47 | 12/2/2006 | 9:40 | 1501 | 1587 | 1544 | 1554 | 0.118 | 49.18 |

Raw data for MITC samples collected by DPR.

| Sample Number | Location Code | Interval # | Machine Number | Date Start | Time Start | Date End | Time End | Flow On (ml/min) | Flow Off (ml/min) | Flow Avg | Run Time | Concentration | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | ug/sample | (ng/m3) |
| 2815 | BEN | 1 | 317 | 12/5/2006 | 8:05 | 12/6/2006 | 8:08 | 1520 | 1482 | 1501 | 1443 | 0.233 | 107.57 |
| 2782 | CHA | 1 | 71 | 12/5/2006 | 8:27 | 12/6/2006 | 8:31 | 1521 | 1451 | 1486 | 1443 | 0.215 | 100.27 |
| 2801 | MAR | 1 | 214 | 12/5/2006 | 7:45 | 12/6/2006 | 7:42 | 1536 | 1539 | 1537.5 | 1437 | 0.242 | 109.53 |
| 2795 | BEN | 2 | 75 | 12/6/2006 | 8:12 | 12/7/2006 | 8:04 | 1498 | 1514 | 1506 | 1432 | 0.185 | 85.78 |
| 2542 | CHA | 2 | 82 | 12/6/2006 | 8:34 | 12/7/2006 | 8:24 | 1494 | 1538 | 1516 | 1430 | 0.181 | 83.49 |
| 2783 | MAR | 2 | 214 | 12/6/2006 | 7:46 | 12/7/2006 | 7:43 | 1509 | 1490 | 1499.5 | 1438 | 0.204 | 94.61 |
| 2794 | BEN | 3 | 75 | 12/7/2006 | 8:07 | 12/8/2006 | 7:59 | 1538 | 1522 | 1530 | 1433 | 0.173 | 78.91 |
| 2806 | CHA | 3 | 71 | 12/7/2006 | 8:27 | 12/8/2006 | 8:18 | 1536 | 1578 | 1557 | 1431 | 0.177 | 79.44 |
| 2793 | MAR | 3 | 367 | 12/7/2006 | 7:46 | 12/8/2006 | 7:45 | 1498 | 1520 | 1509 | 1439 | 0.178 | 81.97 |
| 2810 | BEN | 1 | 317 | 12/12/2006 | 8:02 | 12/13/2006 | 8:12 | 1526 | 1518 | 1522 | 1448 | trace | trace |
| 2822 | CHA | 1 | 71 | 12/12/2006 | 8:21 | 12/13/2006 | 8:37 | 1506 | 1478 | 1492 | 1456 | trace | trace |
| 2775 | MAR | 1 | 214 | 12/12/2006 | 7:40 | 12/13/2006 | 7:42 | 1495 | 1496 | 1495.5 | 1443 | trace | trace |
| 2790 | BEN | 2 | 139 | 12/13/2006 | 8:19 | 12/14/2006 | 8:20 | 1513 | 1528 | 1520.5 | 1442 | trace | trace |
| 2770 | CHA | 2 | 71 | 12/13/2006 | 8:41 | 12/14/2006 | 8:44 | 1522 | 1546 | 1534 | 1442 | trace | trace |
| 2792 | MAR | 2 | 367 | 12/13/2006 | 7:42 | 12/14/2006 | 7:52 | 1510 | 1551 | 1530.5 | 1444 | trace | trace |
| 2805 | BEN | 3 | 75 | 12/14/2006 | 8:26 | 12/15/2006 | 8:29 | 1519 | 1555 | 1537 | 1443 | trace | trace |
| 2819 | CHA | 3 | 82 | 12/14/2006 | 8:52 | 12/15/2006 | 8:42 | 1536 | 1531 | 1533.5 | 1430 | trace | trace |
| 2777 | MAR | 3 | 214 | 12/14/2006 | 8:00 | 12/15/2006 | 7:50 | 1530 | 1579 | 1554.5 | 1430 | trace | trace |
| 2820 | BEN | 1 | 317 | 12/18/2006 | 7:56 | 12/19/2006 | 8:18 | 1521 | 1485 | 1503 | 1463 | trace | trace |
| 2812 | CHA | 1 | 82 | 12/18/2006 | 8:18 | 12/19/2006 | 8:42 | 1520 | 1515 | 1517.5 | 1464 | trace | trace |
| 2796 | MAR | 1 | 214 | 12/18/2006 | 7:33 | 12/19/2006 | 7:55 | 1516 | 1517 | 1516.5 | 1462 | trace | trace |
| 2738 | BEN | 2 | 139 | 12/19/2006 | 8:23 | 12/20/2006 | 8:18 | 1517 | 1523 | 1520 | 1435 | 0.075 | 34.34 |
| 2734 | CHA | 2 | 71 | 12/19/2006 | 8:45 | 12/20/2006 | 8:46 | 1502 | 1500 | 1501 | 1440 | 0.074 | 34.24 |
| 2766 | MAR | 2 | 267 | 12/19/2006 | 7:58 | 12/20/2006 | 7:50 | 1501 | 1525 | 1513 | 1432 | 0.083 | 38.12 |
| 2733 | BEN | 3 | 139 | 12/20/2006 | 8:27 | 12/21/2006 | 8:16 | 1501 | 1535 | 1518 | 1430 | 0.094 | 43.49 |
| 2746 | CHA | 3 | 82 | 12/20/2006 | 8:51 | 12/21/2006 | 8:41 | 1501 | 1674 | 1587.5 | 1430 | 0.101 | 44.49 |
| 2757 | MAR | 3 | 214 | 12/20/2006 | 7:55 | 12/21/2006 | 7:47 | 1489 | 1527 | 1508 | 1432 | 0.085 | 39.22 |
| 2736 | BEN | 1 | 317 | 12/25/2006 | 8:08 | 12/26/2006 | 7:58 | 1502 | 1511 | 1506.5 | 1430 | 0.119 | 55.24 |
| 2826 | CHA | 1 | 71 | 12/25/2006 | 8:29 | 12/26/2006 | 8:19 | 1535 | 1507 | 1521 | 1430 | 0.115 | 52.87 |
| 2717 | MAR | 1 | 214 | 12/25/2006 | 7:44 | 12/26/2006 | 7:39 | 1499 | 1538 | 1518.5 | 1435 | 0.121 | 55.53 |
| 2765 | BEN | 2 | 75 | 12/26/2006 | 8:00 | 12/27/2006 | 8:06 | 1511 | 1538 | 1524.5 | 1447 | 0.098 | 44.24 |
| 2726 | CHA | 2 | 71 | 12/26/2006 | 8:22 | 12/27/2006 | 8:29 | 1530 | 1514 | 1522 | 1447 | 0.088 | 40.05 |
| 2764 | MAR | 2 | 214 | 12/26/2006 | 7:42 | 12/27/2006 | 7:40 | 1505 | 1471 | 1488 | 1439 | 0.097 | 45.35 |
| 2718 | BEN | 3 | 139 | 12/27/2006 | 8:10 | 12/28/2006 | 8:05 | 1536 | 1535 | 1535.5 | 1435 | nd | nd |
| 2761 | CHA | 3 | 82 | 12/27/2006 | 8:32 | 12/28/2006 | 8:24 | 1508 | 1495 | 1501.5 | 1431 | nd | nd |
| 2697 | MAR | 3 | 365 | 12/27/2006 | 7:46 | 12/28/2006 | 7:46 | 1506 | 1515 | 1510.5 | 1440 | nd | nd |

Raw data for ARB volatile organic compound samples collected in Parlier. Results are in ppb. Measurements below the detection limit expressed as the negative of the detection limit (or as 1/2 the detection limit)

| Site Name | Date | 1,3-Butadiene | Acetaldehyde | Acetone | Acetonitrile | Acrolein | Acrylonitrile | Benzene | Carbon Disulfide | Chloroform | cis-1,3-Dichloropropene | Ethyl Benzene | Formaldehyde | meta/para-Xylene | Methyl Bromide | Methyl Chloroform | Methyl Ethyl Ketone | Methylene Chloride | ortho-Dichlorobenzene | ortho-Xylene | para-Dichlorobenzene | Perchloroethylene | Styrene | Toluene | trans-1,3-Dichloropropene | Trichloroethylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 1/17/06 | 0.12 | | 4.1 | 0.38 | 0.64 | 0.36 | 0.5 | 0.16 | -0.02 | -0.1 | -0.2 | | 0.35 | -0.03 | 0.02 | | -0.1 | -0.3 | 0.11 | -0.3 | 0.01 | -0.1 | 0.89 | -0.1 | -0.02 |
| Tuolumne Street | 1/23/06 | 0.1 | 1.1 | 3 | -0.3 | -0.3 | -0.3 | 0.44 | 0.28 | 0.02 | -0.1 | -0.2 | 1.2 | -0.2 | 0.11 | 0.02 | 0.1 | 0.13 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.55 | -0.1 | -0.02 |
| Tuolumne Street | 1/29/06 | 0.17 | 1.1 | 5.4 | 4.8 | 1.2 | 0.44 | 0.49 | 0.29 | 0.02 | 0.2 | -0.2 | 1.8 | 0.45 | 0.05 | 0.02 | -0.1 | 0.19 | -0.3 | 0.13 | -0.3 | 0.03 | -0.1 | 0.91 | 0.17 | -0.02 |
| Tuolumne Street | 2/4/06 | 0.1 | 0.9 | 3.1 | -0.3 | 0.33 | -0.3 | 0.38 | 0.33 | 0.02 | -0.1 | -0.2 | 2 | 0.28 | 0.19 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.59 | -0.1 | -0.02 |
| Tuolumne Street | 2/10/06 | 0.15 | 2.2 | 5.1 | 0.4 | 0.67 | 0.41 | 0.57 | 0.52 | 0.02 | -0.1 | -0.2 | 3.2 | 0.73 | 0.25 | 0.02 | 0.2 | 0.18 | -0.3 | 0.26 | -0.3 | 0.02 | -0.1 | 1.3 | -0.1 | -0.02 |
| Tuolumne Street | 2/16/06 | 0.1 | 1.2 | 1.9 | -0.3 | -0.3 | -0.3 | 0.39 | 0.37 | -0.02 | -0.1 | -0.2 | 1.7 | 0.26 | 0.05 | 0.02 | 0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.58 | -0.1 | -0.02 |
| Tuolumne Street | 2/22/06 | 0.09 | 1.1 | 3.2 | 0.35 | 0.31 | -0.3 | 0.4 | 0.47 | -0.02 | -0.1 | -0.2 | 2.2 | 0.37 | -0.03 | 0.02 | -0.1 | 0.1 | -0.3 | 0.13 | -0.3 | -0.01 | -0.1 | 0.84 | -0.1 | -0.02 |
| Tuolumne Street | 2/28/06 | -0.04 | 0.3 | 8.9 | 1.1 | 0.91 | -0.3 | 0.16 | 0.64 | -0.02 | -0.1 | -0.2 | 0.8 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 3/6/06 | 0.04 | 0.6 | 2.6 | 0.32 | -0.3 | -0.3 | 0.23 | 0.57 | -0.02 | -0.1 | -0.2 | 1 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.31 | -0.1 | -0.02 |
| Tuolumne Street | 3/12/06 | 0.05 | 0.5 | 2.4 | -0.3 | 0.43 | -0.3 | 0.23 | 0.45 | -0.02 | -0.1 | -0.2 | 0.8 | -0.2 | -0.03 | 0.02 | -0.1 | 0.41 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.23 | -0.1 | -0.02 |
| Tuolumne Street | 3/18/06 | -0.04 | 0.4 | 1.9 | -0.3 | 0.35 | -0.3 | 0.21 | 0.54 | -0.02 | -0.1 | -0.2 | 0.9 | -0.2 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.29 | -0.1 | -0.02 |
| Tuolumne Street | 3/24/06 | 0.07 | 1.4 | 4.9 | 0.34 | 0.71 | 0.63 | 0.29 | 0.66 | 0.02 | -0.1 | -0.2 | 2.1 | 0.31 | -0.03 | 0.02 | -0.1 | 0.28 | -0.3 | 0.11 | -0.3 | 0.01 | -0.1 | 0.64 | -0.1 | -0.02 |
| Tuolumne Street | 3/30/06 | -0.04 | 0.6 | 2.1 | 0.4 | 0.48 | 0.55 | 0.16 | 0.63 | -0.02 | -0.1 | -0.2 | 1 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.21 | -0.1 | -0.02 |
| Tuolumne Street | 4/5/06 | -0.04 | 0.3 | 2.7 | -0.3 | -0.3 | -0.3 | 0.11 | 0.5 | -0.02 | -0.1 | -0.2 | 0.4 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 4/11/06 | -0.04 | 0.6 | 2.3 | -0.3 | -0.3 | -0.3 | 0.16 | 0.68 | -0.02 | -0.1 | -0.2 | 1.2 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.22 | -0.1 | -0.02 |
| Tuolumne Street | 4/17/06 | -0.04 | 0.4 | 1.6 | -0.3 | -0.3 | 0.55 | 0.1 | 0.62 | -0.02 | -0.1 | -0.2 | 0.7 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 4/20/06 | -0.04 | 1.6 | 3.5 | 0.32 | 0.41 | 0.39 | 0.19 | 0.72 | 0.02 | -0.1 | -0.2 | 3.2 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.02 | -0.1 | 0.29 | -0.1 | -0.02 |
| Tuolumne Street | 4/23/06 | -0.04 | 0.6 | 2.1 | 0.3 | 0.48 | 0.37 | 0.16 | 0.51 | -0.02 | -0.1 | -0.2 | 1 | -0.2 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.32 | -0.1 | -0.02 |
| Tuolumne Street | 4/26/06 | -0.04 | 0.7 | 2 | -0.3 | 0.56 | 0.44 | 0.11 | 0.64 | -0.02 | -0.1 | -0.2 | 1.4 | -0.2 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 4/29/06 | -0.04 | 1.5 | 4.3 | -0.3 | 0.35 | 0.4 | 0.15 | 0.83 | 0.02 | -0.1 | -0.2 | 3.8 | -0.2 | 0.08 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.28 | -0.1 | -0.02 |
| Tuolumne Street | 5/2/06 | -0.04 | 1.7 | 4.5 | -0.3 | 0.35 | 0.35 | 0.18 | 0.83 | 0.02 | -0.1 | -0.2 | 4 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.4 | -0.1 | -0.02 |
| Tuolumne Street | 5/5/06 | -0.04 | 1.3 | 5.4 | -0.3 | 0.51 | 0.52 | 0.17 | 0.77 | -0.02 | -0.1 | -0.2 | 3 | -0.2 | 0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.31 | -0.1 | -0.02 |
| Tuolumne Street | 5/8/06 | -0.04 | 1.6 | 5.8 | -0.3 | 0.62 | 0.47 | 0.15 | 0.82 | -0.02 | -0.1 | -0.2 | 3.7 | -0.2 | 0.05 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.32 | -0.1 | -0.02 |
| Tuolumne Street | 5/11/06 | | 2.4 | | | | | | | | | | 7.7 | | | | -0.1 | | | | | | | | | |
| Tuolumne Street | 5/14/06 | -0.04 | | 8.5 | 0.32 | 0.86 | 0.9 | 0.15 | 0.89 | 0.02 | -0.1 | -0.2 | | -0.2 | 0.08 | 0.02 | | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.29 | -0.1 | -0.02 |
| Tuolumne Street | 5/17/06 | -0.04 | 2.8 | 6.9 | 1.5 | 0.34 | 0.39 | 0.23 | 1 | 0.02 | -0.1 | -0.2 | 6.5 | 0.2 | 0.04 | 0.02 | -0.1 | 0.13 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.94 | -0.1 | -0.02 |
| Tuolumne Street | 5/20/06 | -0.04 | 1.4 | 2.8 | 0.77 | -0.3 | 0.35 | 0.1 | 0.88 | -0.02 | -0.1 | -0.2 | 2.8 | -0.2 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.37 | -0.1 | -0.02 |

Raw data for ARB volatile organic compound samples collected in Parlier. Results are in ppb. Measurements below the detection limit expressed as the negative of the detection limit (or as 1/2 the detection limit)

| Site Name | Date | 1,3-Butadiene | Acetaldehyde | Acetone | Acetonitrile | Acrolein | Acrylonitrile | Benzene | Carbon Disulfide | Chloroform | cis-1,3-Dichloropropene | Ethyl Benzene | Formaldehyde | meta/para-Xylene | Methyl Bromide | Methyl Chloroform | Methyl Ethyl Ketone | Methylene Chloride | ortho-Dichlorobenzene | ortho-Xylene | para-Dichlorobenzene | Perchloroethylene | Styrene | Toluene | trans-1,3-Dichloropropene | Trichloroethylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 5/23/06 | -0.04 | 0.6 | 2.6 | -0.3 | 0.4 | 0.45 | 0.1 | 0.77 | -0.02 | -0.1 | -0.2 | 1.7 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 5/29/06 | -0.04 | 0.9 | 8.7 | -0.3 | 0.5 | 0.51 | 0.1 | 0.72 | -0.02 | -0.1 | -0.2 | 2.3 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Tuolumne Street | 6/4/06 | -0.04 | | 3.4 | 0.15 | 0.15 | 0.56 | 0.07 | 0.92 | 0.01 | 0.05 | 0.1 | | 0.1 | 0.015 | 0.01 | | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.1 | 0.05 | 0.01 |
| Tuolumne Street | 6/10/06 | -0.04 | 1.3 | 4.7 | 0.15 | 0.52 | 0.53 | 0.1 | 0.88 | 0.01 | 0.05 | 0.1 | 3.5 | 0.1 | 0.015 | 0.02 | 0.05 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.23 | 0.05 | 0.01 |
| Tuolumne Street | 6/16/06 | -0.04 | 1.4 | 10 | 0.15 | 0.68 | 0.66 | 0.14 | 0.92 | 0.02 | 0.05 | 0.1 | 4.7 | 0.1 | 0.015 | 0.02 | 0.05 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.41 | 0.05 | 0.01 |
| Tuolumne Street | 6/22/06 | -0.04 | 3 | 9.1 | 0.15 | 0.55 | 0.85 | 0.15 | 1 | 0.03 | 0.05 | 0.1 | 6.6 | 0.1 | 0.03 | 0.02 | 0.05 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.43 | 0.05 | 0.01 |
| Tuolumne Street | 6/28/06 | -0.04 | | 9.3 | 0.15 | 0.69 | 0.31 | 0.11 | 1 | 0.02 | 0.05 | 0.1 | | 0.1 | 0.015 | 0.02 | | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.29 | 0.05 | 0.01 |
| Tuolumne Street | 7/4/06 | -0.04 | | 5.3 | 0.49 | 0.74 | 1 | 0.11 | | -0.02 | -0.1 | -0.2 | | -0.2 | -0.03 | 0.02 | | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.22 | -0.1 | -0.02 |
| Tuolumne Street | 7/10/06 | -0.04 | | 7.5 | 0.44 | 0.47 | 0.81 | 0.17 | | 0.02 | -0.1 | -0.2 | | -0.2 | -0.03 | 0.02 | | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.26 | -0.1 | -0.02 |
| Tuolumne Street | 7/13/06 | | 2.3 | | | | | | | | | | 3.6 | | | | -0.1 | | | | | | | | | |
| Tuolumne Street | 7/16/06 | -0.04 | | 7.6 | 0.41 | 0.78 | 1.1 | 0.14 | | 0.03 | -0.1 | -0.2 | | -0.2 | 0.05 | 0.02 | | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.31 | -0.1 | -0.02 |
| Tuolumne Street | 7/22/06 | -0.04 | 2.5 | 9.1 | 0.49 | 0.45 | 1.1 | 0.16 | | 0.03 | -0.1 | -0.2 | 6.1 | 0.24 | 0.06 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.49 | -0.1 | 0.02 |
| Tuolumne Street | 7/28/06 | -0.04 | 1.9 | 7.7 | 0.31 | 0.77 | 1.2 | 0.14 | | 0.02 | -0.1 | -0.2 | 4.1 | -0.2 | 0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.33 | -0.1 | -0.02 |
| Tuolumne Street | 8/3/06 | -0.04 | 2.8 | 8.5 | 0.32 | 0.75 | 0.43 | 0.21 | | 0.03 | -0.1 | -0.2 | 4.4 | 0.24 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.49 | -0.1 | -0.02 |
| Tuolumne Street | 8/9/06 | -0.04 | 3.1 | 7.7 | 0.44 | 0.74 | 0.59 | 0.21 | | 0.02 | -0.1 | -0.2 | 3.8 | 0.29 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | 0.11 | -0.3 | 0.01 | -0.1 | 0.53 | -0.1 | -0.02 |
| Tuolumne Street | 8/15/06 | -0.04 | 2 | 6.1 | -0.3 | 0.64 | 0.67 | 0.13 | | 0.02 | -0.1 | -0.2 | 3.3 | -0.2 | 0.04 | 0.01 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.35 | -0.1 | -0.02 |
| Tuolumne Street | 8/21/06 | -0.04 | 2.8 | 9.5 | 0.4 | 0.6 | 0.47 | 0.16 | | 0.03 | -0.1 | -0.2 | 4.1 | -0.2 | 0.07 | 0.01 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 1.2 | -0.1 | -0.02 |
| Tuolumne Street | 8/27/06 | -0.04 | 4 | 10 | -0.3 | 1 | 0.55 | 0.19 | | 0.03 | -0.1 | -0.2 | 4.3 | 0.27 | 0.05 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.51 | -0.1 | -0.02 |
| Tuolumne Street | 9/2/06 | -0.04 | 5.9 | 8.5 | 0.36 | 0.83 | 0.74 | 0.18 | | 0.03 | -0.1 | -0.2 | 5.7 | 0.22 | 0.09 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.46 | -0.1 | -0.02 |
| Tuolumne Street | 9/8/06 | -0.04 | 2.8 | 7.2 | 0.39 | 0.88 | 0.46 | 0.16 | | -0.02 | 0.18 | -0.2 | 3.2 | -0.2 | 0.11 | 0.01 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.34 | 0.12 | -0.02 |
| Tuolumne Street | 9/14/06 | -0.04 | 2.7 | 6.3 | -0.3 | 0.61 | 0.34 | 0.14 | | 0.02 | -0.1 | -0.2 | 3.3 | -0.2 | 0.07 | 0.02 | 0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.35 | -0.1 | -0.02 |
| Tuolumne Street | 9/20/06 | 0.05 | 2.9 | 11 | -0.3 | 1.1 | -0.3 | 0.28 | | 0.02 | -0.1 | -0.2 | 3.3 | 0.38 | 0.07 | 0.02 | 0.1 | -0.1 | -0.3 | 0.13 | -0.3 | 0.01 | -0.1 | 0.76 | -0.1 | -0.02 |
| Tuolumne Street | 9/26/06 | 0.04 | 3.6 | 12 | 0.87 | 1 | 0.31 | 0.26 | | 0.02 | 0.31 | -0.2 | 4.6 | 0.43 | 0.31 | 0.02 | 0.2 | 0.25 | -0.3 | 0.14 | -0.3 | 0.05 | -0.1 | 1.2 | 0.32 | -0.02 |
| Tuolumne Street | 10/2/06 | 0.05 | 2.5 | 11 | 0.52 | 0.84 | 0.41 | 0.26 | | -0.02 | 0.12 | -0.2 | 3.1 | 0.21 | 0.13 | 0.02 | 0.1 | 0.13 | -0.3 | -0.1 | -0.3 | 0.02 | -0.1 | 0.6 | 0.1 | -0.02 |
| Tuolumne Street | 10/8/06 | 0.05 | 1.7 | 9.3 | 0.31 | 0.9 | 0.53 | 0.33 | | 0.02 | 1.3 | -0.2 | 2.4 | 0.49 | 0.08 | 0.02 | -0.1 | -0.1 | -0.3 | 0.17 | -0.3 | -0.01 | -0.1 | 0.93 | 1.1 | -0.02 |

Raw data for ARB volatile organic compound samples collected in Parlier. Results are in ppb. Measurements below the detection limit expressed as the negative of the detection limit (or as 1/2 the detection limit)

| Site Name | Date | 1,3-Butadiene | Acetaldehyde | Acetone | Acetonitrile | Acrolein | Acrylonitrile | Benzene | Carbon Disulfide | Chloroform | cis-1,3-Dichloropropene | Ethyl Benzene | Formaldehyde | meta/para-Xylene | Methyl Bromide | Methyl Chloroform | Methyl Ethyl Ketone | Methylene Chloride | ortho-Dichlorobenzene | ortho-Xylene | para-Dichlorobenzene | Perchloroethylene | Styrene | Toluene | trans-1,3-Dichloropropene | Trichloroethylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 10/14/06 | 0.05 | 1.2 | 11 | 0.44 | 2 | 0.59 | 0.29 | | -0.02 | 0.32 | -0.2 | 1.9 | 0.37 | 0.27 | 0.02 | -0.1 | -0.1 | -0.3 | 0.13 | -0.3 | -0.01 | -0.1 | 0.72 | 0.25 | -0.02 |
| Tuolumne Street | 10/20/06 | 0.07 | 2.3 | 20 | -0.3 | 1.5 | -0.3 | 0.38 | | 0.02 | 2.4 | -0.2 | 2.6 | 0.47 | 0.65 | 0.01 | -0.1 | -0.1 | -0.3 | 0.16 | -0.3 | 0.02 | -0.1 | 0.87 | 1.5 | -0.02 |
| Tuolumne Street | 10/26/06 | 0.1 | 2.2 | 7.2 | -0.3 | 0.34 | -0.3 | 0.44 | | 0.02 | 2.5 | -0.2 | 2.5 | 0.7 | 0.07 | 0.02 | -0.1 | -0.1 | -0.3 | 0.23 | -0.3 | 0.01 | -0.1 | 1.1 | 2.7 | -0.02 |
| Tuolumne Street | 10/29/06 | | 2.8 | | | | | | | | | | 3.4 | | | | 0.1 | | | | | | | | | |
| Tuolumne Street | 11/1/06 | 0.08 | 2.1 | 8 | -0.3 | 0.64 | 0.43 | 0.4 | | 0.03 | 0.38 | -0.2 | 2.5 | 0.56 | 0.08 | 0.02 | 0.05 | -0.1 | -0.3 | 0.19 | -0.3 | 0.02 | -0.1 | 1.1 | 0.41 | -0.02 |
| Tuolumne Street | 11/4/06 | 0.09 | 1.3 | 4.4 | 0.42 | 0.59 | 0.64 | 0.34 | | -0.02 | 0.75 | -0.2 | 2 | 0.35 | 0.11 | 0.01 | 0.05 | -0.1 | -0.3 | 0.12 | -0.3 | -0.01 | -0.1 | 0.66 | 0.47 | -0.02 |
| Tuolumne Street | 11/7/06 | 0.1 | 2 | 9.2 | 0.37 | 0.59 | 0.37 | 0.49 | | 0.02 | 0.31 | -0.2 | 3.1 | 0.66 | 0.05 | 0.01 | 0.1 | -0.1 | -0.3 | 0.24 | -0.3 | 0.04 | -0.1 | 1.2 | 0.21 | -0.02 |
| Tuolumne Street | 11/10/06 | 0.23 | 2.7 | 6.3 | 0.39 | 0.82 | 0.35 | 1 | | 0.02 | 0.46 | -0.2 | 4.4 | 0.55 | 0.05 | 0.02 | 0.6 | 0.17 | -0.3 | 0.2 | -0.3 | -0.01 | -0.1 | 1.3 | 0.47 | -0.02 |
| Tuolumne Street | 11/13/06 | 0.06 | 1.5 | 4.8 | -0.3 | -0.3 | -0.3 | 0.32 | | -0.02 | 0.3 | -0.2 | 2 | 0.2 | 0.1 | 0.01 | 0.05 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.45 | 0.29 | -0.02 |
| Tuolumne Street | 11/16/06 | 0.11 | 1.6 | 6.9 | -0.3 | 0.68 | 0.45 | 0.58 | | 0.02 | 0.55 | -0.2 | 2.1 | 0.59 | 0.08 | 0.02 | 0.1 | 0.11 | -0.3 | 0.21 | -0.3 | 0.01 | -0.1 | 1.2 | 0.55 | -0.02 |
| Tuolumne Street | 11/19/06 | -0.04 | 1 | 4.6 | -0.3 | 0.65 | 0.33 | 0.26 | | -0.02 | 0.37 | -0.2 | 1.4 | 0.2 | 0.09 | 0.02 | 0.05 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.47 | 0.27 | -0.02 |
| Tuolumne Street | 11/22/06 | 0.05 | 1.4 | 5 | -0.3 | 0.52 | 0.44 | 0.38 | | 0.02 | 0.79 | -0.2 | 1.5 | 0.36 | 0.18 | 0.01 | 0.05 | 0.12 | -0.3 | 0.12 | -0.3 | 0.02 | -0.1 | 0.81 | 0.7 | -0.02 |
| Tuolumne Street | 11/28/06 | 0.05 | 0.4 | 3.9 | 0.31 | 0.31 | -0.3 | 0.22 | | -0.02 | -0.1 | -0.2 | 0.7 | -0.2 | 0.03 | 0.02 | 0.05 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.36 | -0.1 | -0.02 |
| Tuolumne Street | 12/7/06 | 0.18 | 3.1 | 7.7 | 0.15 | 0.3 | 0.15 | 0.73 | | 0.03 | 0.29 | 0.28 | 3.4 | 1 | 0.05 | 0.02 | 0.4 | 0.11 | -0.3 | 0.36 | -0.3 | 0.03 | 0.05 | 1.7 | 0.26 | 0.01 |
| Tuolumne Street | 12/9/06 | -0.04 | 0.5 | 3 | 0.15 | 0.15 | 0.15 | 0.13 | | 0.01 | 0.19 | 0.1 | 0.8 | 0.1 | 0.015 | 0.02 | -0.1 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.1 | 0.19 | 0.01 |
| Tuolumne Street | 12/13/06 | 0.14 | 1.1 | 6.9 | 0.15 | 0.46 | 0.15 | 0.61 | | 0.02 | 1.9 | 0.1 | 2.6 | 0.58 | 0.015 | 0.02 | 0.2 | 0.05 | -0.3 | 0.21 | -0.3 | 0.01 | 0.05 | 1.1 | 1.3 | 0.01 |
| Tuolumne Street | 12/19/06 | 0.15 | 1.3 | 18 | 0.15 | 1.1 | 0.15 | 0.56 | | 0.01 | 0.53 | 0.1 | 1.9 | 0.59 | 0.015 | 0.01 | -0.1 | 0.05 | -0.3 | 0.23 | -0.3 | 0.005 | 0.05 | 1.1 | 0.61 | 0.01 |
| Tuolumne Street | 12/21/06 | | 1.1 | | | | | | | | | | 1.7 | | | | -0.1 | | | | | | | | | |
| Tuolumne Street | 12/22/06 | 0.07 | | 6.6 | 0.15 | 0.64 | 0.15 | 0.38 | | 0.01 | 1 | 0.1 | | 0.32 | 0.08 | 0.01 | | 0.05 | -0.3 | 0.11 | -0.3 | 0.01 | 0.05 | 0.64 | 0.93 | 0.01 |
| Tuolumne Street | 12/25/06 | 0.19 | 1.5 | 5.4 | 0.15 | 0.45 | 0.37 | 0.69 | | 0.02 | 1.4 | 0.1 | 2.2 | 0.59 | 0.06 | 0.01 | 0.1 | 0.05 | -0.3 | 0.23 | -0.3 | 0.005 | 0.05 | 1.1 | 1.3 | 0.01 |
| Tuolumne Street | 12/27/06 | -0.04 | 0.2 | 2.8 | 0.15 | 0.15 | 0.15 | 0.14 | | 0.01 | 0.05 | 0.1 | 0.3 | 0.1 | 0.015 | 0.01 | -0.1 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.21 | 0.05 | 0.01 |
| Tuolumne Street | 12/31/06 | 0.08 | | 3.6 | 0.15 | 0.35 | 0.15 | 0.37 | | 0.01 | 0.21 | 0.1 | | 0.3 | 0.12 | 0.02 | | 0.05 | -0.3 | 0.11 | -0.3 | 0.005 | 0.05 | 0.57 | 0.21 | 0.01 |
| Tuolumne Street | 1/6/07 | 0.11 | | 4.6 | -0.3 | 0.75 | -0.3 | 0.48 | | -0.02 | 0.18 | -0.2 | | 0.43 | 0.09 | 0.01 | | -0.1 | -0.3 | 0.16 | -0.3 | -0.01 | -0.1 | 0.9 | 0.17 | -0.02 |

Raw data for ARB metal samples collected in Parlier. Results are in ng/cm$^3$. Measurements below the detection limit expressed as the negative of the detection limit or ½ the detection limit.

| Site Name | Date | Aluminum | Antimony | Arsenic | Barium | Bromine | Calcium | Chlorine | Chromium | Cobalt | Copper | Iron | Lead | Manganese | Mercury | Molybdenum | Nickel | Phosphorus | Potassium | Rubidium | Selenium | Silicon | Strontium | Sulfur | Tin | Titanium | Vanadium | Yttrium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 01/23/06 | 330 | 7 | 2 | 21 | 11 | 320 | 460 | 2 | -1 | 80 | 440 | 5 | 12 | -1 | -2 | -1 | 770 | 260 | -1 | -1 | 1400 | 5 | 1400 | -4 | 35 | 1 | -1 | 68 |
| Tuolumne Street | 01/29/06 | 280 | -5 | 1 | 18 | 4 | 230 | 400 | 4 | -1 | 13 | 360 | 5 | 8 | -1 | 17 | 2 | 23 | 260 | -1 | -1 | 800 | 3 | 350 | -4 | 29 | -1 | -1 | 34 |
| Tuolumne Street | 02/04/06 | 140 | 16 | 3 | 15 | 6 | 140 | 650 | 3 | -1 | 14 | 250 | 5 | 6 | -1 | 52 | 1 | 18 | 210 | -1 | 2 | 460 | 3 | 620 | -4 | 18 | -1 | -1 | 37 |
| Tuolumne Street | 02/10/06 | 1300 | -5 | 3 | 52 | 6 | 1100 | 240 | 5 | -1 | 20 | 1500 | 7 | 37 | -1 | -2 | 1 | 64 | 810 | 4 | 2 | 3600 | 13 | 710 | -4 | 130 | 2 | -1 | 57 |
| Tuolumne Street | 02/16/06 | 650 | -5 | 1 | 28 | 2 | 450 | 150 | 2 | -1 | 10 | 730 | 4 | 17 | -1 | -2 | -1 | 34 | 390 | 2 | -1 | 1800 | 7 | 270 | -4 | 66 | -1 | -1 | 28 |
| Tuolumne Street | 02/22/06 | 490 | -5 | -1 | 28 | 4 | 360 | 96 | 2 | -1 | 10 | 580 | 5 | 13 | -1 | -2 | -1 | 30 | 330 | 2 | -1 | 1400 | 6 | 340 | -4 | 49 | -1 | -1 | 36 |
| Tuolumne Street | 03/06/06 | 140 | 10 | -1 | 9 | 4 | 100 | 100 | -1 | -1 | 4 | 170 | 1 | 4 | -1 | -2 | -1 | 12 | 110 | -1 | -1 | 410 | 2 | 250 | -4 | 14 | -1 | -1 | 11 |
| Tuolumne Street | 03/12/06 | 110 | -5 | -1 | 12 | 1 | 86 | 110 | -1 | -1 | 3 | 150 | 2 | 3 | -1 | -2 | -1 | 10 | 100 | -1 | -1 | 340 | 2 | 300 | -4 | 12 | -1 | -1 | 12 |
| Tuolumne Street | 03/18/06 | 89 | -5 | -1 | 8 | 2 | 100 | 150 | -1 | -1 | 3 | 120 | 2 | 3 | -1 | -2 | -1 | 12 | 92 | -1 | 2 | 280 | 1 | 410 | -4 | 10 | -1 | -1 | 9 |
| Tuolumne Street | 03/24/06 | 790 | 7 | 2 | 30 | 3 | 600 | 110 | 2 | -1 | 11 | 900 | 5 | 20 | -1 | -2 | -1 | 55 | 450 | 2 | 1 | 2100 | 8 | 370 | -4 | 83 | 1 | -1 | 33 |
| Tuolumne Street | 03/30/06 | 120 | 5 | -1 | 8 | 2 | 120 | 460 | -1 | -1 | 3 | 150 | -1 | 4 | -1 | -2 | -1 | 14 | 110 | -1 | -1 | 360 | 3 | 260 | -4 | 13 | -1 | -1 | 7 |
| Tuolumne Street | 04/05/06 | 25 | 5 | -1 | 8 | -1 | 41 | 24 | -1 | -1 | 3 | 65 | -1 | 2 | -1 | -2 | -1 | 5 | 39 | -1 | -1 | 110 | -1 | 110 | -4 | 4 | -1 | -1 | 4 |
| Tuolumne Street | 04/11/06 | 180 | -5 | -1 | 14 | 2 | 200 | 44 | -1 | -1 | 5 | 230 | 2 | 6 | -1 | -2 | -1 | 24 | 150 | -1 | -1 | 520 | 3 | 240 | -4 | 20 | -1 | -1 | 11 |
| Tuolumne Street | 04/17/06 | 87 | -5 | -1 | 7 | 2 | 92 | 310 | -1 | -1 | 3 | 110 | -1 | 3 | -1 | -2 | -1 | 13 | 83 | -1 | -1 | 290 | 2 | 210 | 4 | 10 | -1 | -1 | 5 |
| Tuolumne Street | 04/20/06 | 860 | -5 | -1 | 29 | 4 | 610 | 40 | 2 | -1 | 26 | 880 | 5 | 22 | -1 | -2 | -1 | 50 | 460 | 2 | -1 | 2400 | 10 | 500 | -4 | 82 | -1 | -1 | 29 |
| Tuolumne Street | 04/23/06 | 150 | -5 | -1 | 10 | 3 | 130 | 230 | -1 | -1 | 4 | 170 | 1 | 4 | -1 | -2 | -1 | 17 | 120 | -1 | -1 | 430 | 2 | 330 | -4 | 15 | -1 | -1 | 11 |
| Tuolumne Street | 04/26/06 | 300 | -5 | -1 | 17 | 4 | 270 | 260 | 1 | -1 | 6 | 380 | 3 | 9 | -1 | -2 | -1 | 30 | 210 | -1 | -1 | 860 | 4 | 830 | 7 | 32 | 1 | -1 | 19 |
| Tuolumne Street | 04/29/06 | 1100 | 7 | 2 | 38 | 7 | 760 | 130 | 3 | -1 | 22 | 1200 | 4 | 31 | -1 | -2 | -1 | 78 | 660 | 3 | 1 | 3200 | 11 | 1800 | -4 | 120 | 3 | -1 | 34 |
| Tuolumne Street | 05/02/06 | 1600 | 6 | 1 | 41 | 6 | 1200 | 96 | 4 | -1 | 24 | 1600 | 6 | 40 | -1 | -2 | -1 | 80 | 810 | 4 | -1 | 4300 | 15 | 900 | -4 | 150 | 1 | -1 | 36 |
| Tuolumne Street | 05/05/06 | 1600 | -5 | -1 | 44 | 10 | 1000 | 380 | 4 | -1 | 16 | 1700 | 9 | 43 | -1 | -2 | -1 | 77 | 890 | 4 | -1 | 4500 | 17 | 1400 | -4 | 170 | 3 | -1 | 33 |
| Tuolumne Street | 05/08/06 | 1600 | -5 | -1 | 37 | 5 | 910 | 80 | 4 | -1 | 13 | 1600 | 5 | 39 | -1 | -2 | -1 | 89 | 790 | 4 | -1 | 4500 | 12 | 1100 | -4 | 160 | 3 | -1 | 30 |
| Tuolumne Street | 05/11/06 | 2700 | -5 | -1 | 45 | 6 | 1500 | 56 | 4 | -1 | 15 | 2700 | 7 | 75 | -1 | -2 | -1 | 110 | 1400 | 8 | -1 | 7100 | 23 | 1200 | 6 | 270 | 5 | 1 | 42 |
| Tuolumne Street | 05/17/06 | 2400 | -5 | 1 | 40 | 6 | 1200 | 59 | 5 | -1 | 17 | 2400 | 7 | 63 | -1 | -2 | -1 | 100 | 1100 | 6 | -1 | 6400 | 18 | 1400 | -4 | 240 | 5 | 1 | 42 |
| Tuolumne Street | 05/20/06 | 1900 | 6 | 1 | 39 | 3 | 1100 | 78 | 3 | -1 | 12 | 2000 | 5 | 53 | -1 | -2 | -1 | 110 | 1100 | 6 | -1 | 5400 | 18 | 550 | 5 | 200 | 2 | 1 | 42 |
| Tuolumne Street | 05/23/06 | 440 | -5 | 1 | 15 | 4 | 330 | 57 | 1 | -1 | 6 | 470 | 2 | 12 | -1 | -2 | -1 | 45 | 300 | 1 | -1 | 1200 | 5 | 720 | 5 | 47 | -1 | -1 | 19 |
| Tuolumne Street | 05/29/06 | 890 | -5 | -1 | 19 | 5 | 490 | 100 | 2 | -1 | 6 | 850 | 3 | 23 | -1 | -2 | -1 | 48 | 470 | 3 | -1 | 2500 | 8 | 410 | -4 | 91 | 2 | -1 | 24 |
| Tuolumne Street | 06/04/06 | 950 | -5 | -1 | 22 | 3 | 570 | 32 | 2 | -1 | 6 | 900 | 3 | 24 | -1 | -2 | -1 | 48 | 440 | 2 | -1 | 2600 | 9 | 520 | -4 | 91 | 2 | -1 | 15 |
| Tuolumne Street | 06/10/06 | 1400 | 5 | -1 | 25 | 5 | 780 | 110 | 3 | -1 | 9 | 1300 | 3 | 35 | -1 | -2 | -1 | 64 | 710 | 4 | 2 | 3700 | 12 | 810 | -4 | 130 | 3 | -1 | 19 |
| Tuolumne Street | 06/16/06 | 2400 | 15 | 1 | 50 | 8 | 1600 | 56 | 4 | -1 | 17 | 2500 | 5 | 65 | -1 | -2 | -1 | 130 | 1200 | 7 | 2 | 6400 | 23 | 1100 | 4 | 250 | 3 | -1 | 34 |
| Tuolumne Street | 06/22/06 | 3000 | -5 | 1 | 56 | 10 | 1900 | 56 | 5 | -1 | 13 | 3200 | 6 | 89 | -1 | -2 | -1 | 160 | 1700 | 10 | 1 | 8400 | 28 | 1200 | 6 | 320 | 5 | 2 | 38 |

Raw data for ARB metal samples collected in Parlier. Results are in ng/cm$^3$. Measurements below the detection limit expressed as the negative of the detection limit or ½ the detection limit.

| Site Name | Date | Aluminum | Antimony | Arsenic | Barium | Bromine | Calcium | Chlorine | Chromium | Cobalt | Copper | Iron | Lead | Manganese | Mercury | Molybdenum | Nickel | Phosphorus | Potassium | Rubidium | Selenium | Silicon | Strontium | Sulfur | Tin | Titanium | Vanadium | Yttrium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 06/28/06 | 2400 | 2.5 | 0.5 | 52 | 7 | 1600 | 93 | 5 | 0.5 | 210 | 2500 | 6 | 64 | 0.5 | 1 | 0.5 | 140 | 1400 | 8 | 2 | 6700 | 22 | 1000 | 2 | 250 | 5 | 1 | 36 |
| Tuolumne Street | 07/04/06 | 2200 | -5 | -1 | 390 | 7 | 1100 | 990 | 7 | -1 | 230 | 1900 | 12 | 57 | -1 | -2 | -1 | 80 | 5000 | 7 | 2 | 5300 | 94 | 1700 | -4 | 220 | 3 | -1 | 48 |
| Tuolumne Street | 07/13/06 | 2600 | -5 | 1 | 61 | 13 | 1700 | 110 | 6 | -1 | 79 | 2700 | 9 | 74 | -1 | -2 | -1 | 160 | 1700 | 8 | 3 | 7300 | 27 | 800 | -4 | 270 | 4 | 1 | 47 |
| Tuolumne Street | 07/16/06 | 1900 | 7 | -1 | 43 | 12 | 1300 | 77 | 4 | -1 | 47 | 2000 | 6 | 54 | -1 | -2 | -1 | 170 | 1200 | 6 | 3 | 5400 | 20 | 1200 | 7 | 200 | 4 | -1 | 26 |
| Tuolumne Street | 07/22/06 | 2800 | -5 | 1 | 63 | 10 | 1700 | 49 | 4 | -1 | 43 | 3100 | 6 | 78 | -1 | -2 | -1 | 170 | 1700 | 9 | 2 | 7600 | 28 | 1200 | 4 | 310 | 6 | 1 | 41 |
| Tuolumne Street | 07/28/06 | 2400 | -5 | -1 | 56 | 7 | 1500 | 50 | 5 | -1 | 100 | 2500 | 9 | 66 | -1 | -2 | -1 | 150 | 1400 | 8 | 2 | 6900 | 24 | 950 | -4 | 250 | 4 | -1 | 34 |
| Tuolumne Street | 08/03/06 | 2600 | -5 | 1 | 60 | 8 | 1600 | 110 | 5 | -1 | 98 | 2800 | 7 | 73 | -1 | -2 | -1 | 180 | 1500 | 8 | 2 | 7400 | 25 | 730 | -4 | 270 | 6 | 1 | 43 |
| Tuolumne Street | 08/09/06 | 2200 | -5 | 1 | 51 | 8 | 1400 | 160 | 3 | 13 | 550 | 2300 | 6 | 61 | 1 | -2 | -1 | 110 | 1200 | 7 | 1 | 6200 | 21 | 690 | -4 | 230 | 5 | -1 | 39 |
| Tuolumne Street | 08/15/06 | 2700 | -5 | 2 | 60 | 11 | 1700 | 77 | 6 | -1 | 25 | 3000 | 10 | 78 | -1 | -2 | -1 | 150 | 1500 | 9 | 4 | 7800 | 27 | 790 | -4 | 300 | 5 | 2 | 54 |
| Tuolumne Street | 08/27/06 | 2400 | -5 | 1 | 53 | 8 | 1300 | 43 | 4 | -1 | 17 | 2600 | 7 | 68 | -1 | -2 | -1 | 130 | 1300 | 8 | 3 | 6800 | 21 | 800 | -4 | 250 | 5 | 1 | 40 |
| Tuolumne Street | 09/02/06 | 3500 | -5 | 2 | 77 | 13 | 2000 | 69 | 6 | -1 | 52 | 3800 | 10 | 100 | -1 | -2 | -1 | 190 | 1900 | 11 | 4 | 9700 | 34 | 960 | -4 | 370 | 6 | 2 | 49 |
| Tuolumne Street | 09/08/06 | 3300 | -5 | 2 | 68 | 11 | 2100 | 100 | 7 | -1 | 32 | 3700 | 6 | 91 | -1 | -2 | -1 | 190 | 1900 | 11 | 1 | 9500 | 31 | 690 | -4 | 360 | 6 | 1 | 47 |
| Tuolumne Street | 09/14/06 | 4800 | 5 | 2 | 89 | 10 | 2700 | 1000 | 8 | -1 | 28 | 5400 | 8 | 140 | -1 | -2 | -1 | 210 | 2600 | 17 | 2 | 13000 | 47 | 750 | -4 | 550 | 8 | 2 | 62 |
| Tuolumne Street | 09/20/06 | 2800 | -5 | -1 | 63 | 6 | 1700 | 150 | 6 | -1 | 15 | 3200 | 6 | 84 | -1 | -2 | -1 | 140 | 1400 | 9 | 1 | 7900 | 27 | 390 | 9 | 320 | 4 | -1 | 45 |
| Tuolumne Street | 09/26/06 | 4400 | 9 | 2 | 84 | 9 | 2800 | 93 | 6 | -1 | 26 | 5000 | 8 | 130 | -1 | -2 | -1 | 250 | 2500 | 14 | 2 | 12000 | 44 | 670 | 6 | 490 | 7 | 2 | 81 |
| Tuolumne Street | 10/02/06 | 630 | -5 | 1 | 25 | 8 | 570 | 330 | 2 | 5 | 200 | 770 | 5 | 20 | -1 | -2 | -1 | 46 | 700 | 3 | 5 | 1800 | 9 | 1300 | 5 | 71 | 1 | -1 | 47 |
| Tuolumne Street | 10/08/06 | 1200 | -5 | 2 | 40 | 6 | 770 | 78 | 3 | -1 | 56 | 1400 | 7 | 36 | -1 | -2 | -1 | 88 | 720 | 4 | 1 | 3400 | 12 | 770 | -4 | 130 | 3 | -1 | 31 |
| Tuolumne Street | 10/14/06 | 1100 | 27 | -1 | 45 | 28 | 720 | 170 | 14 | -1 | 15 | 1400 | 5 | 26 | 2 | -2 | 1 | 80 | 750 | 4 | 1 | 3200 | 13 | 790 | 6 | 120 | 2 | -1 | 30 |
| Tuolumne Street | 10/20/06 | 3300 | 18 | 2 | 110 | 6 | 2000 | 110 | 13 | -1 | 66 | 3800 | 10 | 77 | -1 | -2 | -1 | 1200 | 2000 | 12 | 2 | 9500 | 32 | 480 | 8 | 370 | 6 | 1 | 76 |
| Tuolumne Street | 10/26/06 | 6600 | -5 | 5 | 170 | 7 | 3800 | 210 | 22 | -1 | 39 | 8300 | 9 | 170 | -1 | -2 | -1 | 380 | 3500 | 23 | -1 | 19000 | 63 | 560 | -4 | 790 | 10 | 3 | 110 |
| Tuolumne Street | 10/29/06 | 3200 | 9 | 1 | 97 | 9 | 1800 | 130 | 8 | -1 | 24 | 3600 | 9 | 77 | -1 | -2 | -1 | 180 | 1800 | 11 | 1 | 8900 | 28 | 540 | -4 | 340 | 5 | 2 | 62 |
| Tuolumne Street | 11/01/06 | 3400 | 9 | 2 | 120 | 11 | 2600 | 470 | 11 | -1 | 31 | 4200 | 11 | 83 | -1 | -2 | -1 | 210 | 2100 | 12 | 2 | 9900 | 40 | 1200 | -4 | 400 | 6 | 1 | 110 |
| Tuolumne Street | 11/04/06 | 710 | -5 | 3 | 27 | 7 | 520 | 370 | 3 | -1 | 17 | 900 | 6 | 17 | -1 | -2 | -1 | 49 | 650 | 3 | 3 | 2000 | 8 | 730 | -4 | 86 | -1 | -1 | 74 |
| Tuolumne Street | 11/07/06 | 2500 | 14 | 3 | 90 | 9 | 1700 | 210 | 8 | -1 | 32 | 3200 | 7 | 64 | -1 | -2 | -1 | 160 | 1600 | 11 | 1 | 7400 | 29 | 910 | 4 | 300 | 4 | 1 | 99 |
| Tuolumne Street | 11/10/06 | 3000 | -5 | 2 | 110 | 9 | 2200 | 420 | 8 | -1 | 97 | 3600 | 13 | 79 | -1 | -2 | -1 | 210 | 2600 | 12 | -1 | 9000 | 37 | 570 | -4 | 340 | 5 | 1 | 200 |
| Tuolumne Street | 11/16/06 | 770 | 7 | 2 | 45 | 7 | 760 | 190 | 4 | -1 | 19 | 1100 | 7 | 20 | -1 | -2 | -1 | 60 | 680 | 3 | 4 | 2400 | 11 | 490 | -4 | 93 | 2 | -1 | 62 |

Raw data for ARB metal samples collected in Parlier. Results are in ng/cm$^3$. Measurements below the detection limit expressed as the negative of the detection limit or ½ the detection limit.

| Site Name | Date | Aluminum | Antimony | Arsenic | Barium | Bromine | Calcium | Chlorine | Chromium | Cobalt | Copper | Iron | Lead | Manganese | Mercury | Molybdenum | Nickel | Phosphorus | Potassium | Rubidium | Selenium | Silicon | Strontium | Sulfur | Tin | Titanium | Vanadium | Yttrium | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tuolumne Street | 11/22/06 | 1200 | -5 | 4 | 41 | 6 | 1000 | 350 | 4 | -1 | 19 | 1500 | 6 | 33 | -1 | -2 | -1 | 84 | 810 | 4 | 2 | 3700 | 14 | 1100 | 8 | 140 | 2 | -1 | 54 |
| Tuolumne Street | 11/28/06 | 340 | -5 | 1 | 18 | 3 | 350 | 630 | 1 | -1 | 10 | 410 | 2 | 9 | -1 | -2 | -1 | 26 | 260 | -1 | 3 | 1100 | 5 | 200 | -4 | 36 | -1 | -1 | 22 |
| Tuolumne Street | 12/19/06 | 790 | -5 | 3 | 42 | 5 | 690 | 610 | 3 | -1 | 22 | 990 | 15 | 20 | -1 | -2 | -1 | 59 | 680 | 3 | -1 | 2400 | 12 | 480 | -4 | 85 | -1 | -1 | 65 |
| Tuolumne Street | 12/21/06 | 770 | -5 | 2 | 37 | 5 | 720 | 380 | 3 | -1 | 17 | 930 | 7 | 21 | -1 | -2 | -1 | 58 | 620 | 3 | 2 | 2300 | 10 | 470 | -4 | 84 | -1 | -1 | 44 |
| Tuolumne Street | 12/25/06 | 250 | -5 | 3 | 19 | 5 | 210 | 690 | 2 | -1 | 14 | 360 | 7 | 8 | -1 | -2 | -1 | 29 | 440 | -1 | -1 | 780 | 4 | 530 | -4 | 28 | -1 | -1 | 51 |
| Tuolumne Street | 12/27/06 | 84 | -5 | 1 | 9 | 4 | 110 | 1000 | -1 | -1 | 5 | 130 | 2 | 3 | -1 | -2 | -1 | 11 | 110 | -1 | -1 | 280 | 2 | 180 | -4 | 13 | -1 | -1 | 11 |
| Tuolumne Street | 12/31/06 | 320 | -5 | 4 | 20 | 5 | 330 | 380 | 1 | -1 | 15 | 400 | 7 | 9 | -1 | -2 | -1 | 32 | 440 | 1 | -1 | 1000 | 6 | 540 | -4 | 37 | -1 | -1 | 50 |
| Tuolumne Street | 01/06/07 | 360 | 6 | 2 | 24 | 3 | 330 | 220 | 2 | -1 | 12 | 440 | 7 | 9 | -1 | -2 | -1 | 26 | 330 | 1 | -1 | 1100 | 5 | 320 | -4 | 36 | -1 | -1 | 75 |

Raw data for ARB's hexavalent samples in Parlier and Fresno. Results are in ng/cm3. Measurements below the detection limit expressed as the negative of the detection limit.

2006 Toxics Hexavalent Chromium Quarterly Averages, nanograms per cubic meter
from Parlier-Tuolumne Street

Measurements below the detection limit expressed as the negative of the detection limit

| Site Name | Date | Hexavalent Chromium |
|---|---|---|
| Parlier-Tuolumne Street | 1/1/2006 | 0.06 |
| Parlier-Tuolumne Street | 4/1/2006 | -0.06 |
| Parlier-Tuolumne Street | 7/1/2006 | -0.06 |
| Parlier-Tuolumne Street | 10/1/2006 | 0.07 |

2006 Toxics Hexavalent Chromium Quarterly Averages, nanograms per cubic meter
from Fresno-First Street

Measurements below the detection limit expressed as the negative of the detection limit

| Site Name | Date | Hexavalent Chromium |
|---|---|---|
| Fresno-1st Street | 1/1/2006 | 0.08 |
| Fresno-1st Street | 4/1/2006 | 0.06 |
| Fresno-1st Street | 7/1/2006 | -0.06 |
| Fresno-1st Street | 10/1/2006 | 0.06 |

Raw data for ARB volatile organic compound samples collected in Fresno. Results are in ppb. Measurements below the detection limit expressed as the negative of the detection limit (or as 1/2 the detection limit)

| Site Name | Date | 1,3-Butadiene | Acetaldehyde | Acetone | Acetonitrile | Acrolein | Acrylonitrile | Benzene | Carbon Disulfide | Chloroform | cis-1,3-Dichloropropene | Ethyl Benzene | Formaldehyde | meta/para-Xylene | Methyl Bromide | Methyl Chloroform | Methyl Ethyl Ketone | Methylene Chloride | ortho-Dichlorobenzene | ortho-Xylene | para-Dichlorobenzene | Perchloroethylene | Styrene | Toluene | trans-1,3-Dichloropropene | Trichloroethylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fresno-1st Street | 1/11/2006 | 0.12 | | 3.9 | 1.1 | 0.37 | -0.3 | 0.52 | 0.22 | -0.02 | -0.1 | -0.2 | | 0.32 | 0.05 | 0.02 | | 0.22 | -0.3 | 0.12 | -0.3 | 0.02 | -0.1 | 0.87 | -0.1 | -0.02 |
| Fresno-1st Street | 1/13/2006 | | 1.8 | | | | | | | | | | 2.7 | | | | 0.3 | | | | | | | | | |
| Fresno-1st Street | 1/23/2006 | | 1.4 | | | | | | | | | | 2 | | | | -0.1 | | | | | | | | | |
| Fresno-1st Street | 1/26/2006 | 0.07 | | 2.4 | -0.3 | -0.3 | -0.3 | 0.29 | 0.68 | -0.02 | -0.1 | -0.2 | | -0.2 | 0.04 | 0.02 | | 0.1 | -0.3 | -0.1 | -0.3 | 0.02 | -0.1 | 0.38 | -0.1 | -0.02 |
| Fresno-1st Street | 2/4/2006 | 0.17 | 0.9 | 3.6 | -0.3 | -0.3 | -0.3 | 0.6 | 0.6 | 0.03 | -0.1 | -0.2 | 1.7 | 0.54 | 0.05 | 0.02 | 0.2 | 0.17 | -0.3 | 0.16 | -0.3 | 0.03 | -0.1 | 1.1 | -0.1 | -0.02 |
| Fresno-1st Street | 2/16/2006 | 0.21 | 1.5 | 2.9 | -0.3 | -0.3 | -0.3 | 0.76 | 0.2 | 0.03 | -0.1 | -0.2 | 2.6 | 0.76 | -0.03 | 0.02 | 0.2 | 0.13 | -0.3 | 0.24 | -0.3 | 0.02 | -0.1 | 1.4 | -0.1 | -0.02 |
| Fresno-1st Street | 2/28/2006 | -0.04 | 0.3 | 3.2 | -0.3 | 0.47 | -0.3 | 0.21 | 0.2 | -0.02 | -0.1 | -0.2 | 0.7 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.26 | -0.1 | -0.02 |
| Fresno-1st Street | 3/12/2006 | 0.1 | 0.7 | 1.7 | 0.46 | -0.3 | -0.3 | 0.42 | 0.2 | -0.02 | -0.1 | -0.2 | 1.3 | -0.2 | -0.03 | 0.02 | -0.1 | 0.15 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 0.48 | -0.1 | -0.02 |
| Fresno-1st Street | 3/24/2006 | 0.12 | 1.5 | 3.9 | 0.37 | 0.54 | 0.63 | 0.48 | 0.19 | 0.03 | -0.1 | -0.2 | 2.6 | 0.68 | 0.04 | 0.02 | 0.1 | 0.17 | -0.3 | 0.21 | -0.3 | 0.03 | -0.1 | 1.3 | -0.1 | -0.02 |
| Fresno-1st Street | 4/5/2006 | 0.05 | 0.4 | 5.8 | 3.8 | 0.51 | -0.3 | 0.24 | 0.25 | -0.02 | -0.1 | -0.2 | 0.6 | -0.2 | -0.03 | 0.02 | -0.1 | 0.12 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.44 | -0.1 | -0.02 |
| Fresno-1st Street | 4/17/2006 | -0.04 | 0.3 | 2 | -0.3 | 0.3 | 0.3 | 0.13 | 0.3 | -0.02 | -0.1 | -0.2 | 0.6 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | -0.2 | -0.1 | -0.02 |
| Fresno-1st Street | 4/29/2006 | -0.04 | 1.1 | 4.9 | -0.3 | 0.43 | 0.88 | 0.15 | 0.34 | 0.02 | -0.1 | -0.2 | 2.7 | -0.2 | 0.04 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.02 | -0.1 | 0.28 | -0.1 | -0.02 |
| Fresno-1st Street | 5/11/2006 | 0.06 | 2.3 | 8.3 | 0.36 | 0.81 | 0.52 | 0.28 | 0.39 | 0.05 | -0.1 | -0.2 | 4.8 | 0.49 | 0.05 | 0.02 | -0.1 | 0.12 | -0.3 | 0.17 | -0.3 | 0.02 | -0.1 | 1.1 | -0.1 | -0.02 |
| Fresno-1st Street | 5/23/2006 | -0.04 | 0.8 | 2.8 | 0.36 | -0.3 | -0.3 | 0.14 | 0.23 | 0.03 | -0.1 | -0.2 | 2.3 | -0.2 | -0.03 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | -0.01 | -0.1 | 1.1 | -0.1 | -0.02 |
| Fresno-1st Street | 6/4/2006 | -0.04 | 0.6 | 3.3 | 0.49 | 0.55 | 0.65 | 0.05 | 0.26 | 0.01 | 0.05 | 0.1 | 2.3 | 0.1 | 0.015 | 0.02 | 0.05 | 0.05 | -0.3 | 0.05 | -0.3 | 0.005 | 0.05 | 0.1 | 0.05 | 0.01 |
| Fresno-1st Street | 6/16/2006 | -0.04 | 1.8 | 8.1 | 0.15 | 0.48 | 0.15 | 0.22 | 0.45 | 0.04 | 0.05 | 0.1 | 4.7 | 0.37 | 0.015 | 0.02 | 0.05 | 0.17 | -0.3 | 0.12 | -0.3 | 0.02 | 0.05 | 0.78 | 0.05 | 0.01 |
| Fresno-1st Street | 6/28/2006 | -0.04 | 1.4 | 7.9 | 0.83 | 0.61 | 0.15 | 0.13 | 0.26 | 0.03 | 0.05 | 0.1 | 5 | 0.1 | 0.015 | 0.02 | 0.05 | 0.1 | -0.3 | 0.05 | -0.3 | 0.02 | 0.05 | 0.37 | 0.05 | 0.01 |
| Fresno-1st Street | 7/10/2006 | 0.06 | 1.9 | 6.5 | 0.39 | 0.9 | 0.56 | 0.21 | | 0.03 | -0.1 | -0.2 | 5.5 | 0.24 | -0.03 | 0.02 | -0.1 | 0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.49 | -0.1 | -0.02 |
| Fresno-1st Street | 7/16/2006 | | 2.2 | | | | | | | | | | 6.4 | | | | -0.1 | | | | | | | | | |
| Fresno-1st Street | 7/22/2006 | -0.04 | 2.1 | 8.9 | 0.42 | 0.53 | 0.63 | 0.2 | | 0.04 | -0.1 | -0.2 | 8.8 | 0.41 | 0.07 | 0.02 | -0.1 | 0.13 | -0.3 | 0.15 | -0.3 | 0.02 | -0.1 | 0.81 | -0.1 | -0.02 |
| Fresno-1st Street | 8/3/2006 | -0.04 | | 7.6 | 0.32 | 0.31 | -0.3 | 0.19 | | 0.03 | -0.1 | -0.2 | | 0.29 | 0.06 | 0.02 | | 0.12 | -0.3 | 0.11 | -0.3 | 0.03 | -0.1 | 0.61 | -0.1 | -0.02 |
| Fresno-1st Street | 8/15/2006 | -0.04 | 1.6 | 5.1 | 0.33 | 0.44 | 0.31 | 0.14 | | 0.03 | -0.1 | -0.2 | 4 | 0.2 | 0.05 | 0.02 | -0.1 | -0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.39 | -0.1 | -0.02 |
| Fresno-1st Street | 8/27/2006 | -0.04 | 2.4 | 6.5 | -0.3 | 0.37 | -0.3 | 0.15 | | 0.03 | -0.1 | -0.2 | 4.8 | -0.2 | 0.08 | 0.02 | -0.1 | 0.1 | -0.3 | -0.1 | -0.3 | 0.01 | -0.1 | 0.44 | -0.1 | -0.02 |
| Fresno-1st Street | 9/8/2006 | | 2.8 | | | | | | | | | | 5.7 | | | | -0.1 | | | | | | | | | |
| Fresno-1st Street | 9/12/2006 | 0.06 | | 15 | 0.36 | 0.48 | -0.3 | 0.41 | | 0.04 | -0.1 | -0.2 | | 0.69 | 0.05 | 0.02 | | 0.21 | -0.3 | 0.25 | -0.3 | 0.04 | -0.1 | 1.3 | -0.1 | -0.02 |
| Fresno-1st Street | 9/20/2006 | 0.05 | 1.7 | 6.1 | 0.74 | 0.49 | -0.3 | 0.23 | | 0.02 | -0.1 | -0.2 | 3.2 | 0.41 | 0.06 | 0.02 | -0.1 | 0.17 | -0.3 | 0.14 | -0.3 | 0.04 | -0.1 | 0.8 | -0.1 | -0.02 |

Raw data for ARB volatile organic compound samples collected in Fresno. Results are in ppb. Measurements below the detection limit expressed as the negative of the detection limit (or as 1/2 the detection limit)

| Site Name | Date | 1,3-Butadiene | Acetaldehyde | Acetone | Acetonitrile | Acrolein | Acrylonitrile | Benzene | Carbon Disulfide | Chloroform | cis-1,3-Dichloropropene | Ethyl Benzene | Formaldehyde | meta/para-Xylene | Methyl Bromide | Methyl Chloroform | Methyl Ethyl Ketone | Methylene Chloride | ortho-Dichlorobenzene | ortho-Xylene | para-Dichlorobenzene | Perchloroethylene | Styrene | Toluene | trans-1,3-Dichloropropene | Trichloroethylene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fresno-1st Street | 10/2/2006 | 0.05 | | 9.6 | -0.3 | 0.69 | -0.3 | 0.27 | | -0.02 | -0.1 | -0.2 | | 0.32 | 0.09 | 0.02 | | 0.27 | -0.3 | 0.11 | -0.3 | 0.01 | -0.1 | 0.6 | -0.1 | -0.02 |
| Fresno-1st Street | 10/3/2006 | | 1.8 | | | | | | | | | | 3.8 | | | | 0.1 | | | | | | | | | |
| Fresno-1st Street | 10/14/2006 | 0.04 | 1.4 | 6.8 | 0.39 | 0.84 | 0.42 | 0.27 | | 0.02 | -0.1 | -0.2 | 2.6 | 0.37 | 0.11 | 0.02 | -0.1 | 0.13 | -0.3 | 0.13 | -0.3 | 0.01 | -0.1 | 0.75 | -0.1 | -0.02 |
| Fresno-1st Street | 10/26/2006 | 0.18 | 2.6 | 6.9 | -0.3 | 0.46 | -0.3 | 0.72 | | 0.04 | 0.74 | 0.33 | 3.7 | 1.2 | 0.04 | 0.02 | 0.1 | 0.15 | -0.3 | 0.43 | -0.3 | 0.03 | 0.26 | 2.2 | 0.58 | -0.02 |
| Fresno-1st Street | 11/7/2006 | 0.2 | 4 | 12 | 0.59 | 1.1 | | 1 | | 0.04 | -0.1 | 0.47 | 5.3 | 1.7 | 0.06 | 0.02 | 0.3 | 0.34 | -0.3 | 0.62 | -0.3 | 0.05 | 0.12 | 3.2 | -0.1 | -0.02 |
| Fresno-1st Street | 11/19/2006 | 0.05 | 1.3 | 4.8 | 1 | 0.46 | 0.4 | 0.35 | | -0.02 | 0.12 | -0.2 | 2 | 0.37 | 0.06 | 0.02 | -0.1 | 0.15 | -0.3 | 0.14 | -0.3 | 0.02 | -0.1 | 1 | -0.1 | -0.02 |
| Fresno-1st Street | 12/1/2006 | 0.3 | 3.2 | 6 | 0.34 | 0.52 | -0.3 | 1.4 | | 0.04 | -0.1 | 0.45 | 4.7 | 1.7 | 0.07 | 0.02 | 0.5 | 0.27 | -0.3 | 0.58 | -0.3 | 0.03 | 0.14 | 2.7 | -0.1 | -0.02 |
| Fresno-1st Street | 12/13/2006 | 0.23 | 1.3 | 5.6 | 0.46 | 0.34 | -0.3 | 1 | | 0.03 | -0.1 | 0.33 | 4 | 1.3 | -0.03 | 0.02 | 0.1 | 0.21 | -0.3 | 0.43 | -0.3 | 0.04 | 0.12 | 2.3 | -0.1 | -0.02 |
| Fresno-1st Street | 12/25/2006 | 0.3 | 2 | 13 | 1.2 | 0.8 | -0.3 | 1.2 | | 0.03 | 0.62 | 0.32 | 3.7 | 1.1 | 0.05 | 0.02 | -0.1 | 0.13 | -0.3 | 0.42 | -0.3 | 0.03 | 0.13 | 2.1 | 0.54 | -0.02 |
| Fresno-1st Street | 12/27/2006 | 0.06 | 0.3 | 4.4 | -0.3 | 0.65 | -0.3 | 0.27 | | -0.02 | -0.1 | -0.2 | 0.9 | 0.29 | -0.03 | 0.01 | -0.1 | 0.1 | -0.3 | 0.11 | -0.3 | -0.01 | -0.1 | 0.65 | -0.1 | -0.02 |
| Fresno-1st Street | 1/12/2007 | 0.27 | | 2.8 | -0.3 | 0.59 | -0.3 | 1 | | 0.02 | 0.14 | 0.22 | | 0.79 | 0.03 | 0.02 | | 0.13 | -0.3 | 0.3 | -0.3 | 0.02 | 0.12 | 1.5 | 0.13 | -0.02 |
| Fresno-1st Street | 1/18/2007 | 0.26 | | 9.1 | 0.4 | 2.2 | -0.3 | 1.1 | | 0.02 | -0.1 | 0.29 | | 1.2 | 0.06 | 0.02 | | 0.28 | -0.3 | 0.38 | -0.3 | 0.02 | -0.1 | 2.3 | -0.1 | -0.02 |
| Fresno-1st Street | 1/30/2007 | 0.22 | | 4.2 | -0.3 | 0.42 | -0.3 | 0.86 | | 0.02 | 0.18 | 0.22 | | 0.94 | 0.04 | 0.01 | | 0.17 | -0.3 | 0.35 | -0.3 | 0.02 | 0.12 | 1.3 | 0.18 | -0.02 |

Explanation of codes for San Joaquin Valley Air Pollution Control District raw data
Site ID: 06-019-4001 City: Parlier County: Fresno Address: 9240 S. RIVERBEND, PARLIER 93648

| AIRS_SITE_ID | SITE NAME |
|---|---|
| 060194001 | PARLIER-9240 S. RIVERBEND |

| PARAMETER CODE | PARAMTER NAME |
|---|---|
| 12128 | Total particulate Lead |
| 42601 | Nitric oxide |
| 42602 | Nitrogen dioxide |
| 42603 | Oxides of Nitrogen |
| 44201 | Ozone |
| 43102 | Total Non-Methane Hydrocarbon |
| 43502 | Formaldehyde |
| 43503 | Acetaldehyde |
| 43551 | Acetone |
| 45109 | m/p Xylene |
| 45201 | Benzene |
| 45202 | Toluene |
| 45203 | Ethylbenzene |
| 45204 | 0-Xylene |
| 45220 | Styrene |

| PARAMETER CODE | METHOD_CODE | COLLECTION METHOD | ANALYSIS METHOD |
|---|---|---|---|
| 12128 | 304 | LO-VOL-XONTECH 920- TEFLON | X-RAY FLUORESCENCE |
| 42601 | 074 | INSTRUMENTAL | CHEMILUMINESCENCE |
| 42602 | 074 | INSTRUMENTAL | CHEMILUMINESCENCE |
| 42603 | 074 | INSTRUMENTAL | CHEMILUMINESCENCE |
| 44201 | 087 | INSTRUMENTAL | ULTRA VIOLET ABSORPTION |
| 43102 | 164 | INSTRUMENTAL | TEI 55:NMOC CALGAS=PROPANE |
| 43502 | 202 | SILICA-DNPH-CART-KI O3 SCRUBBER | HPLC ULTRAVIOLET ABSORPTION |
| 43503 | 202 | SILICA-DNPH-CART-KI O3 SCRUBBER | HPLC ULTRAVIOLET ABSORPTION |
| 43551 | 172 | 6L PRESSURIZED CANNISTER | PRECON HP GC/MS |
| 45109 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |
| 45201 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |
| 45202 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |
| 45203 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |

| | | | |
|---|---|---|---|
| 45204 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |
| 45220 | 171 | 6L PRESSURIZED CANNISTER | PRECON SATURN GC/MS |

| PARAMETER CODE | UNIT CODE | UNIT |
|---|---|---|
| 12128 | 003 | NANOGRAMS/CUBIC METER (25 C) |
| 42601 | 007 | PARTS PER MILLION |
| 42602 | 007 | PARTS PER MILLION |
| 42603 | 007 | PARTS PER MILLION |
| 44201 | 007 | PARTS PER MILLION |
| 43102 | 007 | PARTS PER MILLION |
| 43502 | 008 | PARTS PER BILLION |
| 43503 | 008 | PARTS PER BILLION |
| 45109 | 008 | PARTS PER BILLION |
| 43551 | 008 | PARTS PER BILLION |
| 45201 | 008 | PARTS PER BILLION |
| 45202 | 008 | PARTS PER BILLION |
| 45203 | 008 | PARTS PER BILLION |
| 45204 | 008 | PARTS PER BILLION |
| 45220 | 008 | PARTS PER BILLION |

Summary of San Joaquin Valley Air Pollution Control District raw data

QUICKLOOK ALL PARAMETERS
EXCEPTIONAL DATA TYPES
EDT DESCRIPTION
0 NO EVENTS
1 EVENTS EXCLUDED
2 EVENTS INCLUDED
4 NATURAL EVENTS EXCLUDED

| Parameter | Unit | | | Org | Year | Method | # Obs | 1st Max | 2nd | 3rd | 4th | Arith. Average | | Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42601 | Nitric oxide | Parts per million | 1 | 945 | 2006 | 74 | 7950 | 0.101 | 0.098 | 0.096 | 0.091 | 0.006 | 1 | HOUR |
| 42602 | Nitrogen dioxide | Parts per million | 1 | 945 | 2006 | 74 | 7950 | 0.062 | 0.058 | 0.055 | 0.054 | 0.0115 | 1 | HOUR |
| 42603 | Oxides of Nitrogen | Parts per million | 1 | 945 | 2006 | 74 | 7950 | 0.128 | 0.123 | 0.123 | 0.119 | 0.0132 | 1 | HOUR |
| 43000 | Sum of PAMS target compounds | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 218.3 | 116.5 | 113.7 | 106.7 | 35.87* | 3 | HOURS |
| 43102 | Total NMOC | Parts per billion | 1 | 945 | 2006 | 164 | 6959 | 1090 | 1000 | 870 | 780 | 73.344 | 1 | HOUR |
| 43141 | n-Dodecane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 5.5 | 3.7 | 3 | 2.2 | .18* | 3 | HOURS |
| 43202 | Ethane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 7.4 | 6 | 3.5 | 0.1 | .17* | 3 | HOURS |
| 43203 | Ethylene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.1 | 0.1 | 0.1 | 0.1 | .07* | 3 | HOURS |
| 43204 | Propane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 48.3 | 46.2 | 42.1 | 40.6 | 12.75* | 3 | HOURS |
| 43205 | Propylene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.8 | 3.4 | 2.8 | 2.4 | .50* | 3 | HOURS |
| 43206 | Acetylene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 9.2 | 1.4 | 1.1 | 0.1 | .13* | 3 | HOURS |
| 43212 | n-Butane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 5.8 | 5.7 | 5.4 | 4 | 1.21* | 3 | HOURS |
| 43214 | Isobutane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 10.4 | 7.3 | 5.2 | 4.3 | 1.11* | 3 | HOURS |
| 43216 | trans-2-Butene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43217 | cis-2-Butene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43220 | n-Pentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 17.1 | 5.7 | 5.4 | 4.5 | 1.30* | 3 | HOURS |
| 43221 | Isopentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 37.7 | 11.6 | 10.9 | 8.7 | 3.65* | 3 | HOURS |
| 43224 | 1-Pentene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43226 | trans-2-Pentene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43227 | cis-2-Pentene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |

| Parameter | Unit | | | Org | Year | Method | # Obs | 1st Max | 2nd | 3rd | 4th | Arith. Average | | Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 43230 | 3-Methylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 7.2 | 5.6 | 3.9 | 3.9 | 1.08* | 3 | HOURS |
| 43231 | n-Hexane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 6 | 5.4 | 4.3 | 3.1 | .72* | 3 | HOURS |
| 43232 | n-Heptane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 5.6 | 1.5 | 1.4 | 1.4 | .28* | 3 | HOURS |
| 43233 | n-Octane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.5 | 0.1 | 0.1 | 0.1 | .08* | 3 | HOURS |
| 43235 | n-Nonane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.7 | 1.4 | 0.1 | 0.1 | .07* | 3 | HOURS |
| 43238 | n-Decane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 28 | 5.2 | 4.6 | 2.1 | .40* | 3 | HOURS |
| 43242 | Cyclopentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43243 | Isoprene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3 | 1.8 | 1.1 | 0.1 | .09* | 3 | HOURS |
| 43244 | 2,2-Dimethylbutane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.1 | 0.1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 43245 | 1-Hexene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.3 | 0.1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 43247 | 2,4-Dimethylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.6 | 0.1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 43248 | Cyclohexane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.6 | 2.1 | 2 | 1.9 | .36* | 3 | HOURS |
| 43249 | 3-Methylhexane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 5.3 | 2.9 | 1.9 | 1.8 | .42* | 3 | HOURS |
| 43250 | 2,2,4-Trimethylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.2 | 3.1 | 3 | 2.9 | .83* | 3 | HOURS |
| 43252 | 2,3,4-Trimethylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.1 | 1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 43253 | 3-Methylheptane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 43261 | Methylcyclohexane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 3.6 | 1.3 | 1.3 | 1.3 | .15* | 3 | HOURS |
| 43262 | Methylcyclopentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.7 | 2.6 | 2.6 | 2.3 | .52* | 3 | HOURS |
| 43263 | 2-Methylhexane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.2 | 2 | 2 | 1.6 | .36* | 3 | HOURS |
| 43280 | 1-Butene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.2 | 1.2 | 0.1 | 0.1 | .07* | 3 | HOURS |
| 43284 | 2,3-Dimethylbutane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2 | 1.2 | 1.2 | 1.1 | .15* | 3 | HOURS |
| 43285 | 2-Methylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 8.7 | 5.1 | 4.1 | 3.9 | .98* | 3 | HOURS |
| 43291 | 2,3-Dimethylpentane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.5 | 1.5 | 1.4 | 1.4 | .24* | 3 | HOURS |
| 43954 | n-Undecane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 11.3 | 11.1 | 9.5 | 4.6 | .46* | 3 | HOURS |
| 43960 | 2-Methylheptane | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.3 | 0.1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 44201 | Ozone | Parts per million | 1 | 945 | 2006 | 87 | 7874 | 0.131 | 0.121 | 0.121 | 0.121 | 0.0615 | 1 | HOUR |
| 45109 | m/p Xylene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 6.2 | 5.6 | 5.4 | 5.2 | 1.57* | 3 | HOURS |
| 45201 | Benzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.6 | 2.6 | 2.6 | 2.6 | .81* | 3 | HOURS |
| 45202 | Toluene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 68.6 | 11.4 | 11.3 | 10.9 | 4.36* | 3 | HOURS |
| 45203 | Ethylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.5 | 1.7 | 1.7 | 1.7 | .36* | 3 | HOURS |

| Parameter | Unit | | | Org | Year | Method | # Obs | 1st Max | 2nd | 3rd | 4th | Arith. Average | | Duration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 45204 | o-Xylene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.6 | 2 | 2 | 1.9 | .45* | 3 | HOURS |
| 45207 | 1,3,5-Trimethylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1 | 0.1 | 0.1 | 0.1 | .06* | 3 | HOURS |
| 45208 | 1,2,4-Trimethylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 4.2 | 3.5 | 2.9 | 2.7 | .64* | 3 | HOURS |
| 45209 | n-Propylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 45210 | Isopropylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 45211 | o-Ethyltoluene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.4 | 1 | 0.1 | 0.1 | .07* | 3 | HOURS |
| 45212 | m-Ethyltoluene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 2.4 | 2.1 | 1.9 | 1.4 | .21* | 3 | HOURS |
| 45213 | p-Ethyltoluene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.4 | 1.1 | 0.1 | 0.1 | .07* | 3 | HOURS |
| 45218 | m-Diethylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 45219 | p-Diethy benzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 0.1 | 0.1 | 0.1 | 0.1 | .05* | 3 | HOURS |
| 45220 | Styrene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 5.6 | 1.1 | 0.1 | 0.1 | .10* | 3 | HOURS |
| 45225 | 1,2,3-Trimethylbenzene | Parts per billion | 1 | 945 | 2006 | 177 | 136 | 1.5 | 1.1 | 1 | 0.1 | .08* | 3 | HOURS |
| 61101 | Wind speed | Knots | 1 | 945 | 2006 | 20 | 8490 | 17.4 | 17.4 | 17.4 | 16.5 | 4.08 | 1 | HOUR |
| 61102 | Wind Direction | Degrees Compass | 1 | 945 | 2006 | 20 | 8490 | 360 | 360 | 360 | 360 | 204.2 | 1 | HOUR |
| 61103 | Resultant Speed | Knots | 1 | 945 | 2006 | 20 | 8490 | 17.4 | 17.4 | 17.4 | 17.4 | 4.08 | 1 | HOUR |
| 61104 | Resultant Direction | Degrees Compass | 1 | 945 | 2006 | 20 | 8490 | 346 | 344 | 343 | 343 | 200.37 | 1 | HOUR |
| 62101 | Outdoor Temperature | Degrees Fahrenheit | 1 | 945 | 2006 | 40 | 8603 | 107 | 106 | 106 | 106 | 61.8 | 1 | HOUR |
| 62201 | Relative Humidity | Percent relative | 1 | 945 | 2006 | 11 | 8094 | 100 | 100 | 100 | 100 | 62.3 | 1 | HOUR |
| 63301 | Solar radiation | Langleys/minute | 1 | 945 | 2006 | 11 | 8686 | 1.46 | 1.46 | 1.46 | 1.45 | 0.301 | 1 | HOUR |
| 64101 | Barometric pressure | Mill bars | 1 | 945 | 2006 | 14 | 8699 | 1018.6 | 1017.2 | 1017.2 | 1017.2 | 1002.12 | 1 | HOUR |

# APPENDIX H

## Comparison to Other Pesticide Monitoring in California

**Comparison to Other Pesticide Monitoring in California**

**DPR monitoring in Lompoc**

DPR conducted an ambient air monitoring study in Lompoc, CA in 1998 and 2000 that was conducted as a two-phase study (DPR, 2003). Phase one was primarily a pilot study to develop the analytical methods to monitor multiple pesticides in a single sample. During the first phase, eight chemicals (Chlorothalonil, chlorpyrifos, chlorpyrifos OA, diazinon, diazinon OA, dimethoate, dimethoate OA, and permethrin) were monitored that were also monitored in Parlier. In 2000, during the second phase of the Lompoc study, the same eight chemicals plus an additional seven (dicofol, EPTC, malathion, malathion OA, naled (dichlorvos), simazine and trifluralin) were monitored. In addition, air sampling of metam sodium and methyl bromide was coordinated with applications of the fumigants so that ambient air samples were collected for the respective fumigants during several applications. Table 19 summarizes the results from both phases of the Lompoc study.

Phase One

Chlorothalonil was detected in 28 of 119 samples between the quantitation limit of 8 ng/m$^3$ and the detection limit of 2 ng/m$^3$. Chlorothalonil was detected in 91 of 119 samples below the detection limit; no samples were detected above the quantitation limit.

Chlorpyrifos, the most frequently detected pesticide, was detected in 55 of 119 samples above the quantitation limit of 4 ng/m$^3$, and in an additional 60 of 119 samples between the quantitation limit and the detection limit of 1 ng/m$^3$. The maximum concentration of chlorpyrifos that was detected was 83 ng/m$^3$. In addition, chlorpyrifos OA was detected in 4 of 119 samples above the quantitation limit of 5 ng/m$^3$. The maximum concentration of chlorpyrifos OA was 8.5 ng/m$^3$. Chlorpyrifos OA was not detected above the detection limit of 5 ng/m$^3$ in 115 of 119 samples.

Diazinon was detected in 3 of 119 samples. Its maximum concentration was 18 ng/m$^3$. The remaining 116 of 119 samples were below the detection limit of 1 ng/m$^3$. Diazinon OA was detected in 1 of 119 samples above the quantitation limit of 5 ng/m$^3$; its concentration was 5.3 ng/m$^3$. Diazinon OA was detected below the detection limit of 5 ng/m$^3$ in 118 of 119 samples.

All 119 dimethoate and dimethoate OA samples were below the detection limit of 1 ng/m$^3$.

Permethrin was detected in 1 of 119 samples between the quantitation limit of 9 ng/m$^3$ and the detection limit of 2 ng/m$^3$. The rest of the samples were below the detection limit.

Phase Two - Fumigant Sampling and Analysis

During the 2000 fumigant air monitoring study six applications of metam sodium (or metam potassium) and two applications of methyl bromide/chloropicrin were monitored.

Of the 173 samples collected and analyzed for MITC, 100 had detectable concentrations. The highest concentration detected in any sample for MITC was 920 ng/m$^3$ using charcoal tubes and 1,885 ng/m$^3$ using canisters. Of the 93 methyl bromide samples, two canister samples had trace concentrations below the limit of quantitation of 3,890 ng/m$^3$.

Chlorothalonil was detected in 27 of 159 samples between the detection limit of 1.4 ng/m$^3$ and 7.1 ng/m$^3$. There were no samples that contained chlorothalonil above the quantitation limit.

Chlorpyrifos was detected in 7 of 159 samples above the quantitation limit of 3.8 ng/m$^3$ and in 47 samples in concentrations between the detection limit of 0.77 ng/m$^3$ and the quantitation limit. The oxygen analog of chlorpyrifos was detected in 1 of 159 samples above the quantitation limit of 2.7 ng/m$^3$ and in 17 samples at concentrations between the quantitation limit and the detection limit of 0.55 ng/m$^3$.

Diazinon was detected in 12 of 159 samples at concentrations between the detection limit of 0.72 ng/m$^3$ and the quantitation limit of 3.6 ng/m$^3$. Diazinon OA was detected in 4 of 159 samples between the detection limit of 0.52 ng/m$^3$ and the quantitation limit of 2.6 ng/m$^3$. Neither was detected at concentrations above the quantitation limit.

Dichlorvos (naled) was detected in 31 of 159 samples at concentrations between the detection limit of 0.40 ng/m$^3$ and the quantitation limit of 2.02 ng/m$^3$. No samples contained concentrations above the quantitation limit.

Dicofol was detected in 9 of 159 samples at concentrations between the detection limit of 1.3 ng/m$^3$ and the quantitation limit of 6.6 ng/m$^3$. No samples contained concentrations above the quantitation limit.

Dimethoate was detected in 3 of 159 samples at concentrations between the detection limit of 0.55 ng/m$^3$ and the quantitation limit of 2.8 ng/m$^3$. Diazinon OA was detected in 12 of 159 samples between the detection limit of 0.48 ng/m$^3$ and the quantitation limit of 2.4 ng/m$^3$. Neither was detected at concentrations above the quantitation limit.

EPTC was detected in 4 of 159 samples at concentrations between the detection limit of 0.61 ng/m$^3$ and the quantitation limit of 3.1 ng/m$^3$. Four samples contained concentrations above the quantitation limit. The maximum one-day concentration was 6.5 ng/m$^3$.

Malathion was detected in 33 of 159 samples at concentrations between the detection limit of 0.82 ng/m$^3$ and the quantitation limit of 4.1 ng/m$^3$. Three samples contained concentrations above the quantitation limit. The maximum one-day concentration was 7.6 ng/m$^3$. Malathion OA was detected in 31 of 159 samples at concentrations between the detection limit of 0.40 ng/m$^3$ and the quantitation limit of 2.0 ng/m$^3$. One sample contained a concentration above the quantitation limit at 2.2 ng/m$^3$.

Permethrin was detected in 7 of 159 samples at concentrations between the detection limit of 1.4 ng/m$^3$ and the quantitation limit of 7.2 ng/m$^3$. There were no detections above the quantitation limit.

Simazine was not detected in any of the159 samples. The detection limit was 0.61 ng/m$^3$.

Trifluralin was detected in 38 of 159 samples at concentrations between the detection limit of 1.5 ng/m$^3$ and the quantitation limit of 7.6 ng/m$^3$. There were no detections above the quantitation limit.

**Air Resources Board Monitoring**

The Air Resources Board, in support of DPR's Toxics Air Contaminant (TAC) monitoring program, conducts ambient monitoring for a variety of pesticides. Monitoring for pesticides is conducted in counties with the highest use for a particular pesticide to be monitored and during the season of highest use. Information is available from ambient air sampling conducted under the TAC program for 14 of the pesticides included in the monitoring study in Parlier: 1,3-dichloropropene, chlorpyrifos, chlorothalonil, diazinon, endosulfan, EPTC, malathion, MITC, methyl bromide, molinate, permethrin, propargite, simazine, and S,S,S-tributyl phosphorotrithioate.

The fumigants, 1,3-dichloropropene and methyl bromide have been monitored over various time periods in several studies. 1,3-dichloropropene was measured over the course of eight days in Merced County in April 1990 (California Air Resources Board, 1991). The maximum concentration was 160,000 ng/m$^3$ and the average was 24,000 ng/m$^3$. Following suspension of 1,3-dichloropropene use in California, ARB monitored ambient air concentrations in Merced County in March through April 1995 during reintroduction of use of 1,3-dichloropropene with mitigation measures (California Air Resources Board, 1995). The 24-hour concentrations ranged from no detectable amount (ND) to 7,400 ng/m$^3$. Similar monitoring conducted in Kern County during May to December, 1995 measured concentrations up to 27,000 ng/m$^3$ (California Air Resources Board, 1996). In July 1996, following permit condition revisions, 24-hour 1,3-dichloropropene concentrations measured in Kern County ranged from 100 ng/m$^3$ to 13,000 ng/m$^3$ (California Air Resources Board, 1997). The highest 24-hour ambient air concentrations measured in Kern in 2000 and 2001 were 135,000 ng/m$^3$ and 96,000 ng/m$^3$, respectively (California Air Resources Board, 2000 and 2002b). In Monterey and Santa Cruz counties the highest 24-hour concentrations measured were 4,340 ng/m$^3$ and 18,900 ng/m$^3$ in 2000 and 2001, respectively (California Air Resources Board, 2001a and 2002a). In 2005, 1,3-dichloropropene was monitored in Ventura County from August 22 to September 30, 2005 (California Air Resources Board, 2006). The 24-hour concentrations ranged below the detection limit of 5.8 ng/m$^3$ to 40,700 ng/m$^3$ for cis-1,3-dichloropropene, and below the detection limit of 4.4 ng/m$^3$ to 36,100 ng/m$^3$ for trans-1,3-dichloropropene.

Ambient air concentration of methyl bromide was also monitored in Kern, Monterey and Santa Cruz Counties in 2000 and 2001(California Air Resources Board, 2000, 2001a, 2002a and 2002b). The highest 24-hour concentrations measured in Kern in 2000 and

2001 were 55,000 ng/m$^3$ and 98,300 ng/m$^3$, respectively. In Monterey and Santa Cruz Counties the highest 24-hour concentrations measured were 119,000 ng/m$^3$ and 142,000 ng/m$^3$ in 2000 and 2001, respectively. Methyl bromide was monitored in Ventura County in 2006 with 1,3-dichloropropene (California Air Resources Board, 2006). Measured concentrations ranged below the detection level of 7.7 ng/m$^3$ to a maximum concentration of 15,800 ng/m$^3$.

MITC was measured in Kern County in July 1993 using sorbent tubes (California Air Resources Board, 1994) at four sites over the course of eight days. Four sites were measured over the course of eight days with 83 percent of the samples above the minimum quantitation level of 10.0 ng/m$^3$. The maximum 24-hour concentration was 18,000 ng/m$^3$, the average was 5,800 ng/m$^3$, and the mean background concentration (located in an urban area) was 2,100 ng/m$^3$. In June 2000, ARB monitored for MITC and MIC (another breakdown product of metam-sodium) in Kern County using sorbent tubes (California Air Resources Board, 2003a) at five sites over the course of eight weeks. The 8-week average concentrations for MITC ranged from 120 ng/m$^3$ to 2,500 ng/m$^3$ at the five sites with 44 percent of the samples containing concentrations of MITC above the quantitation limit of 420 ng/m$^3$. Of the 396 ambient air samples, none contained MIC concentrations above the quantitation limit of 420 ng/m$^3$. The background site (located in an urban area with no use) had a maximum 24-hour concentration of 1,700 ng/m$^3$ and 42 percent of the samples contained a concentration above the quantitation limit of 420 ng/m$^3$. In the fall of 2001, ARB monitored ambient air concentrations of MITC and MIC in Monterey and Santa Cruz Counties at five sites for eight weeks, four 24-hour samples per week (California Air Resources Board, 2003b). Of the 192 samples, only one sample (430 ng/m$^3$) had a concentration of MITC above the quantitation limit of 420 ng/m$^3$, and two samples were below the quantitation limit but above the MDL. None of the samples contained any detectable concentration of MIC. There were no measurable concentrations of MITC or MIC at the background sampling location.

Chlorothalonil was monitored at five sites in Fresno County during the summer of 2002 (California Air Resources Board, 2003c). At each site, 24-hour samples were collected four days a week for six weeks from May 28 through July 3, 2002. The maximum concentration measured was 14 ng/m$^3$. Fourteen percent of the samples were above the quantitation limit of 2.3 ng/m$^3$, 45 percent were between the quantitation limit and the detection limit of 0.45 ng/m$^3$, and 40 percent were below the detection limit.

Chlorpyrifos and its oxygen analog were measured in Tulare County during May and June 1996 (California Air Resources Board, 1998b). The maximum concentration of chlorpyrifos was 815 ng/m$^3$, and the mean background (collected in urban area with no or little use) concentration was 27 ng/m$^3$. The maximum concentration of chlorpyrifos oxon was 230 ng/m$^3$, and the mean background (collected in urban area with no or little use) concentration was 20 ng/m$^3$.

Diazinon was measured in Fresno County during January and February 1997 at four sites over a six-week period (California Air Resources Board, 1998a). The maximum

concentration was 290 ng/m$^3$, and all background sample concentrations (collected in urban area with no or little use) were below the level of quantitation.

Dichlorvos (DDVP)/Naled were measured in Tulare County during May and June 1991 using XAD-2, and analyzed by gas chromatography (California Air Resources Board, 1993). Four sites were measured over the course of 16 days and 14 percent of the sample concentrations were above the minimum quantitation level of 40 ng/m$^3$. The maximum concentration was 65 ng/m$^3$, and the mean background concentration (collected in urban area with no or little use) was 68 ng/m$^3$.

Ambient air monitoring of endosulfan was conducted in Fresno County from July through August 1996 (California Air Resources Board, 1998c). Chemical analysis was performed for two isomers of endosulfan (endosulfan I and endosulfan II) as well as endosulfan sulfate. The highest 24-hour values observed for the study were 140 ng/m$^3$ and 26 ng/m$^3$ for endosulfan I and II, respectively. Endosulfan sulfate was not found above the quantification limit of 6.6 ng/m$^3$.

EPTC was measured in Imperial County during October and November 1996 at four sites over the course of 24 days (California Air Resources Board, 1998d). The maximum EPTC concentration was 240 ng/m$^3$, and all of the background samples (collected in urban area with no or little use) had concentrations below the limit of quantitation.

Malathion and its breakdown product malaoxon were measured in Imperial County during February and March 1998 (California Air Resources Board, 1999a). Four sites were measured over the course of 12 days. The maximum malathion concentration was 90 ng/m$^3$, and the mean background concentration (collected in urban area with no or little use) was 5.7 ng/m$^3$.

Permethrin was measured in Monterey County during August and September 1997 at four sites over the course of 24 days (California Air Resources Board, 1998e). Five percent of the sample concentrations were above the limit of detection, but were below the limit of quantitation (15 ng/m$^3$ for a 24-hour sampling period).

Propargite was measured in Fresno and Kings Counties from June 24 to August 4, 1999 (California Air Resources Board, 2001b). The highest 24-hour propargite concentration was 1300 ng/m$^3$. Forty percent of the samples were above the quantitation limit of 23 ng/m$^3$.

Simazine was measured in Fresno County during February through April 1998 at four sites over the course of 24 days (California Air Resources Board, 1999b). The maximum concentration was 18 ng/m$^3$; all background sample concentrations were below the estimated quantitation limit.

The cotton defoliant SSS-tributylphosphorotrithioate (DEF) was monitored four days a week at four sites in Fresno County during September through early November in 1987

(ARB, 1988). Maximum detection was 330 ng/m$^3$, and 17 percent of the urban background samples contained concentrations above the MDL of 1.1 ng/m$^3$.

Other Monitoring

Pesticide Action Network North America (PANNA) monitored for chlorpyrifos and its oxon analog in Lindsay, California, as part of its Drift Catcher program (Mills and Kegley, 2006). The program collected 104 24-hour samples between July 13 and August 2 in 2004, and 108 samples between June 13 and July 22 in 2005. In 2004, 76 percent of the samples were above the quantitation limit of 30 ng/sample (equivalent to 6 ng/m$^3$ for a 24-hour sample). The highest concentration measure was 1,340 ng/m$^3$ for a 24-hour period. In 2005, 80 percent of the samples were above the quantitation limit, with a maximum concentration measured at 1,120 ng/m$^3$.

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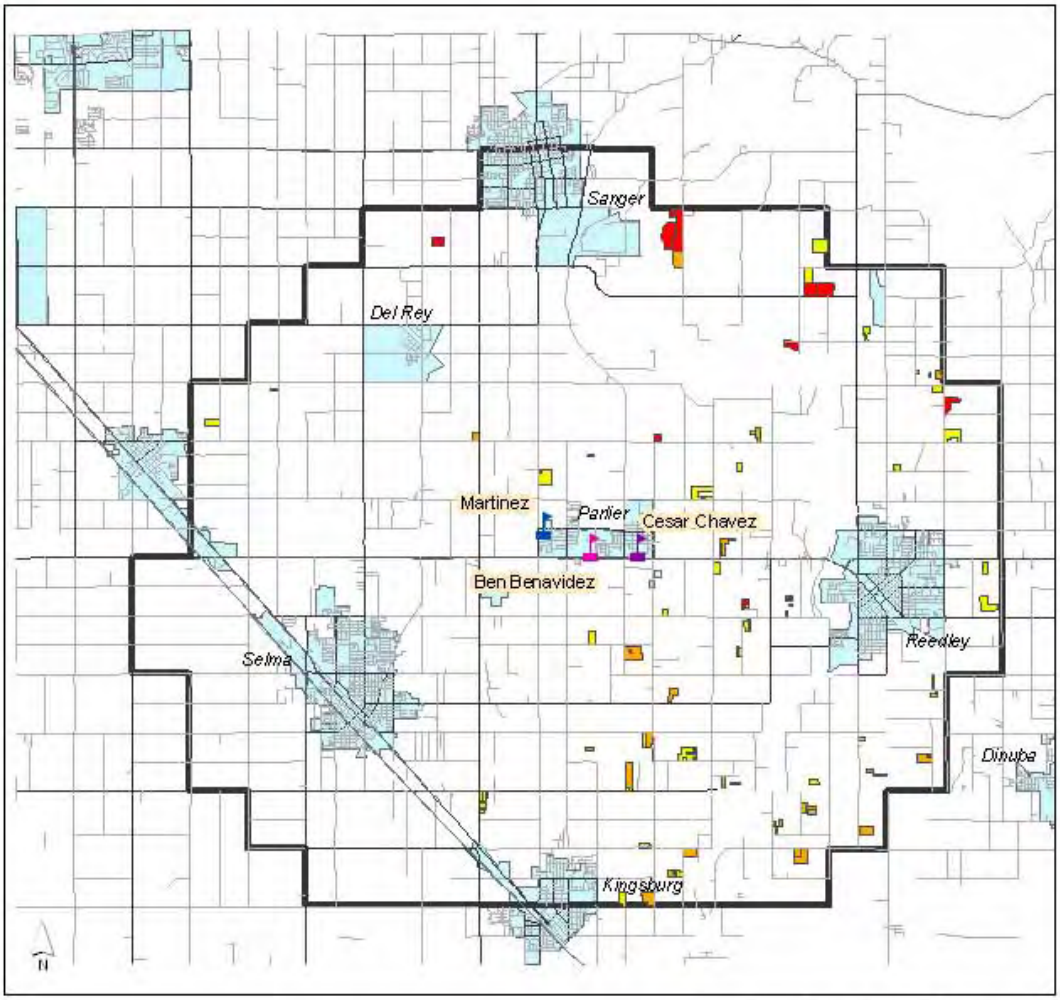
# APPENDIX I

Maps of Individual Pesticide Applications for Detected Pesticides

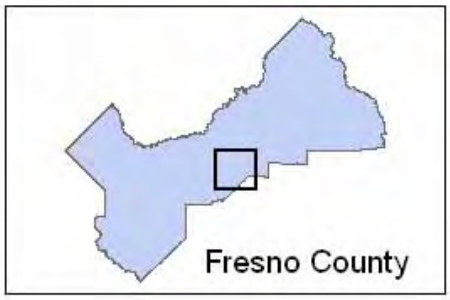
# 1,3-Dichloropropene Applications 01/01/06 - 12/31/06



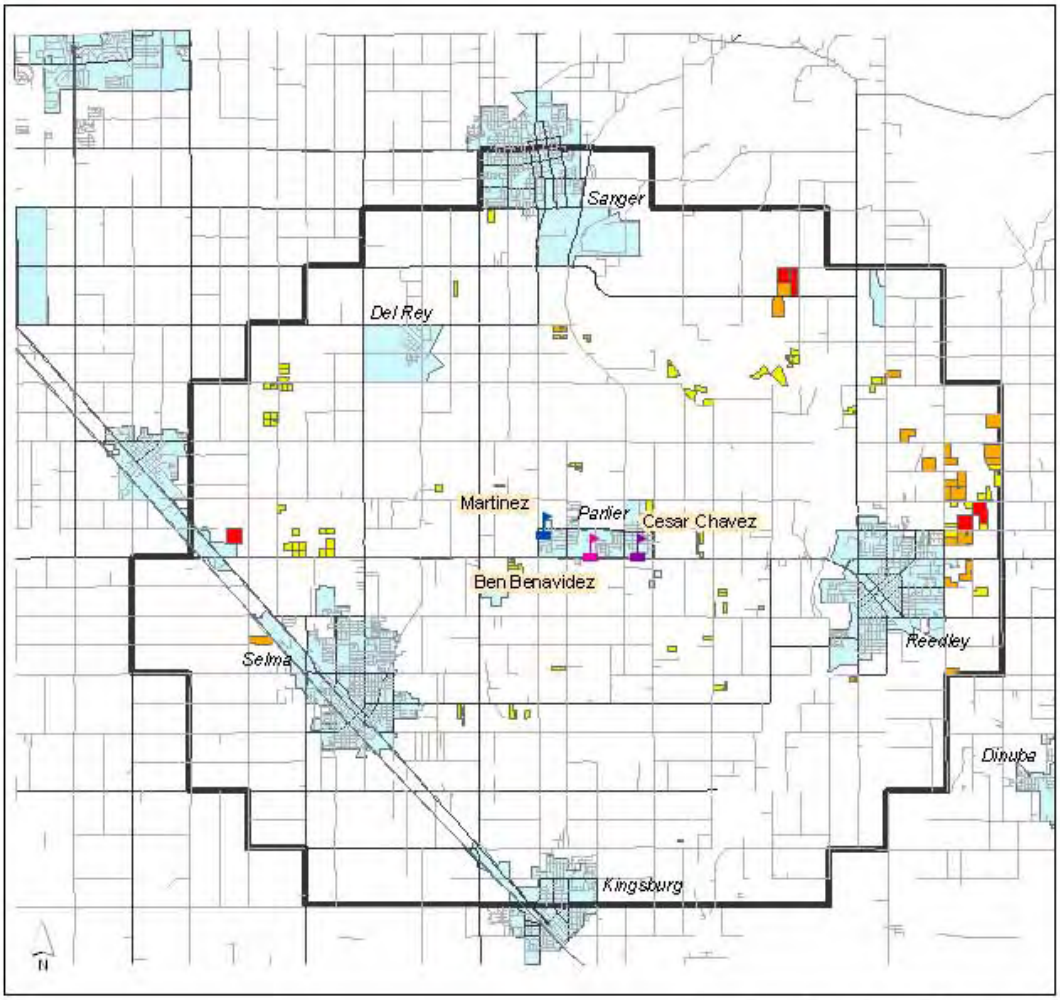

0 1 2 3 4 Miles

**Total Lbs of AI**

- 18 - 456
- 457 - 1327
- 1328 - 7217
- Study Area



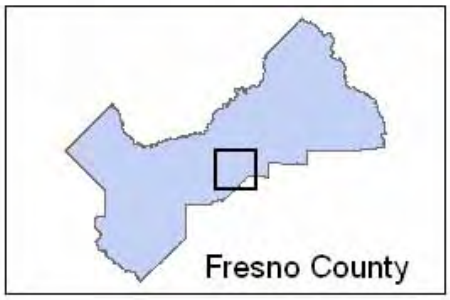
# Chlorothalonil Applications 01/01/06 - 12/31/06



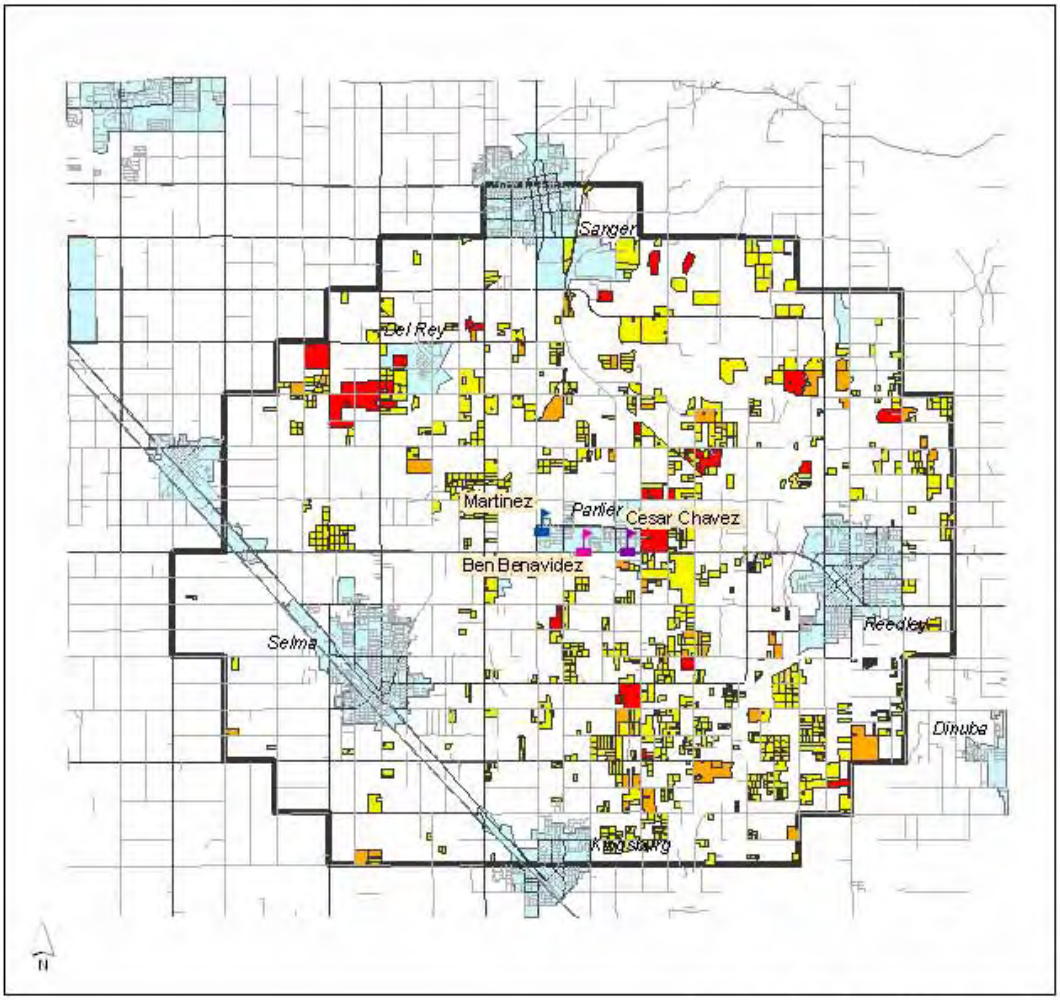

0 1 2 3 4 Miles

**Total Lbs AI**

- 0 - 40
- 41 - 120
- 121 - 241
- Study Area



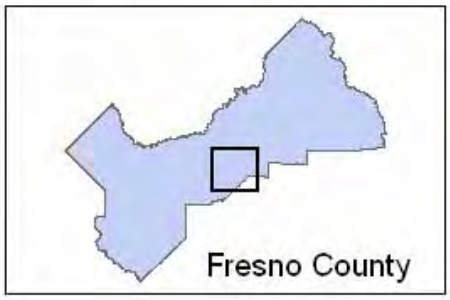
# Chlorpyrifos Applications 01/01/06 - 12/31/06



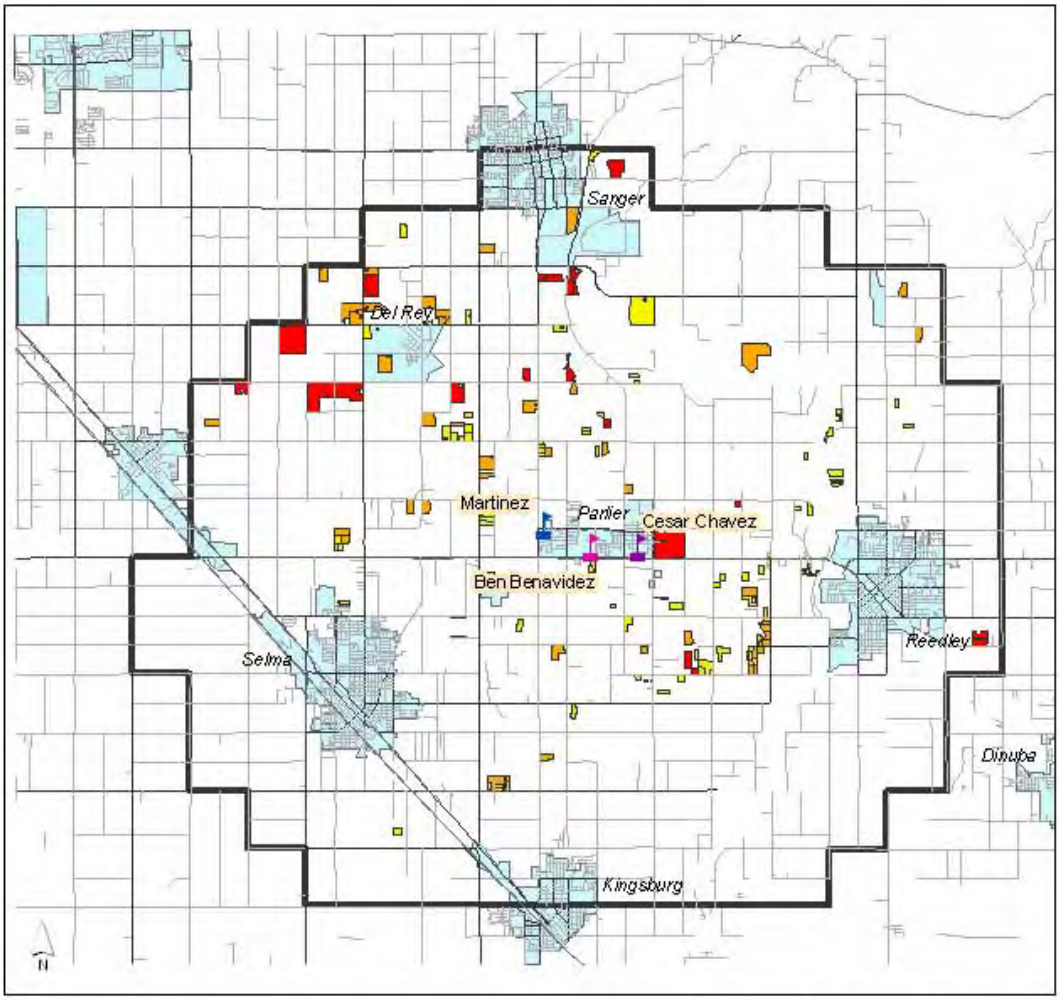

0 1 2 3 4 Miles

**Total Lbs AI**

- 0 - 21
- 22 - 58
- 59 - 154
- Study Area



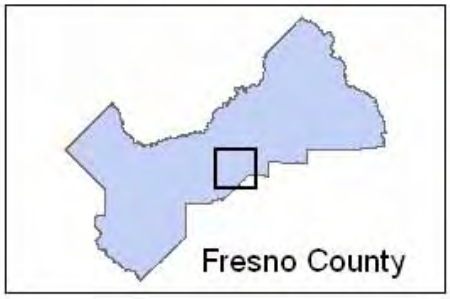
# Diazinon Applications 01/01/06 - 12/31/06



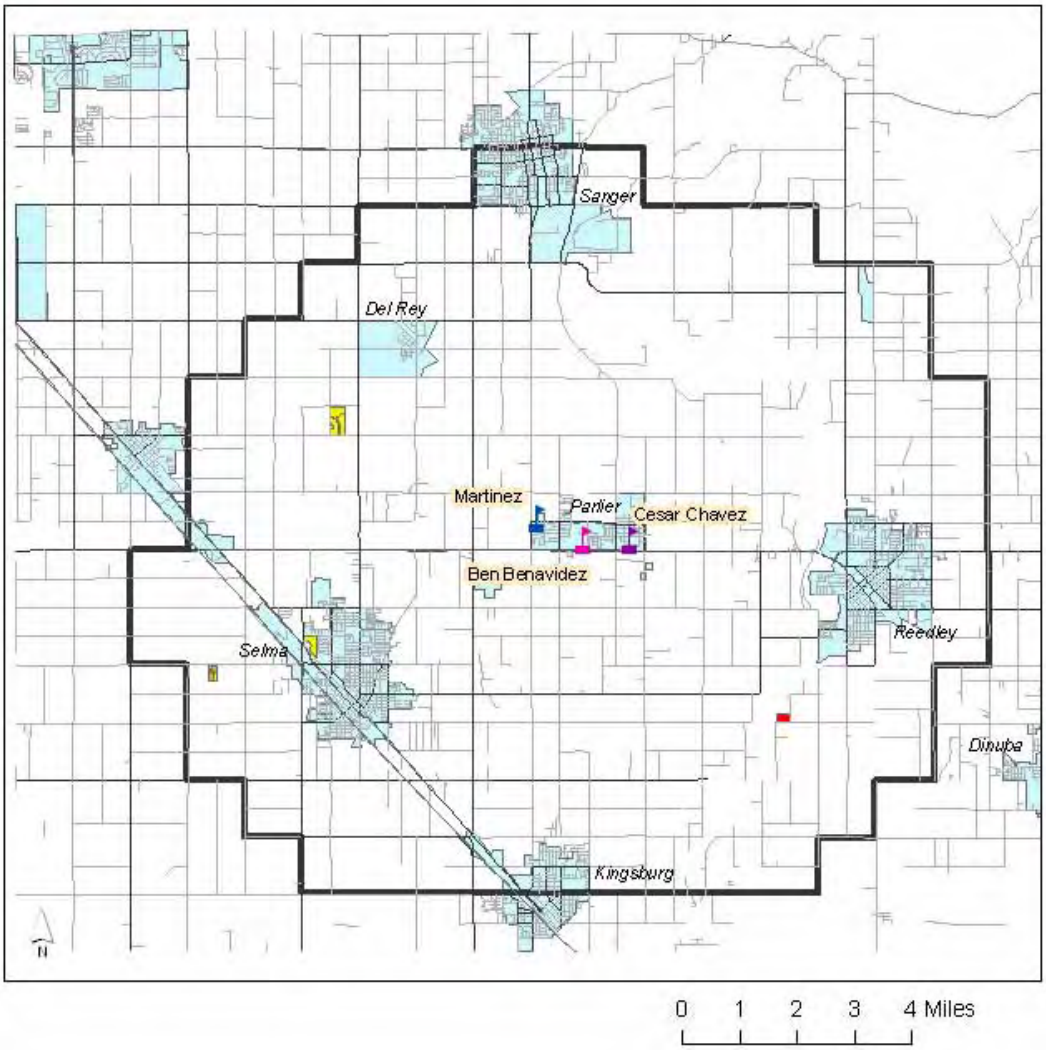

0 1 2 3 4 Miles

**Total Lbs AI**

- 0 - 18
- 19 - 48
- 49 - 160
- Study Area

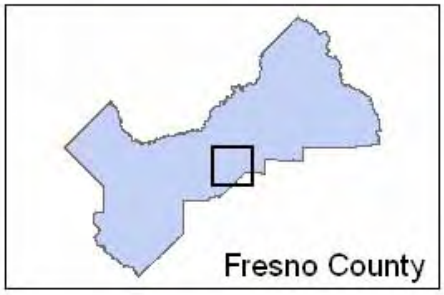


# Metam-Sodium Applications 01/01/06 - 12/31/06

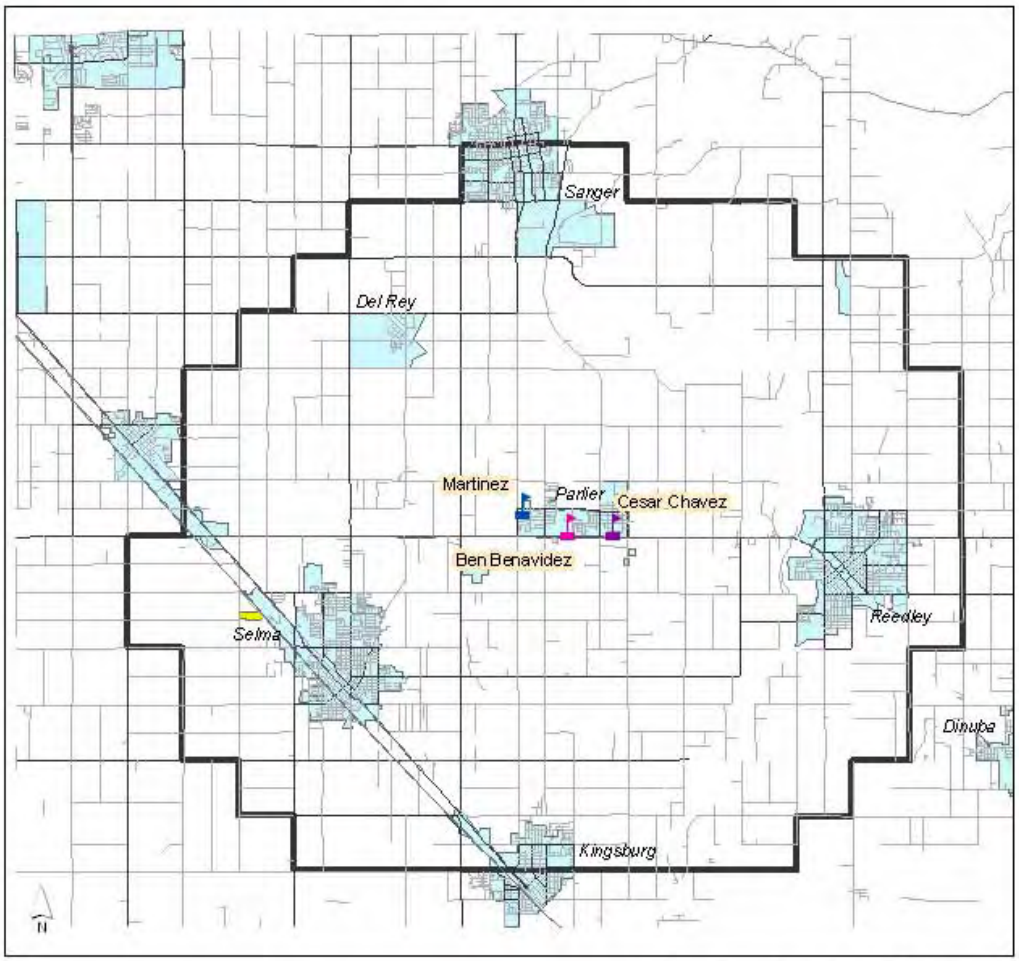



**Total Lbs AI**

- 191 - 952
- 953 - 1926
- 1927 - 3810
- Study Area



# Potassium n-methyldithiocarbamate Applications
# 01/01/06 - 12/31/06

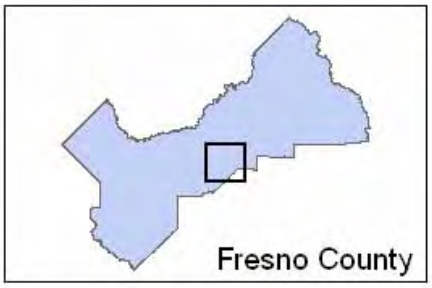



0 1 2 3 4 Miles

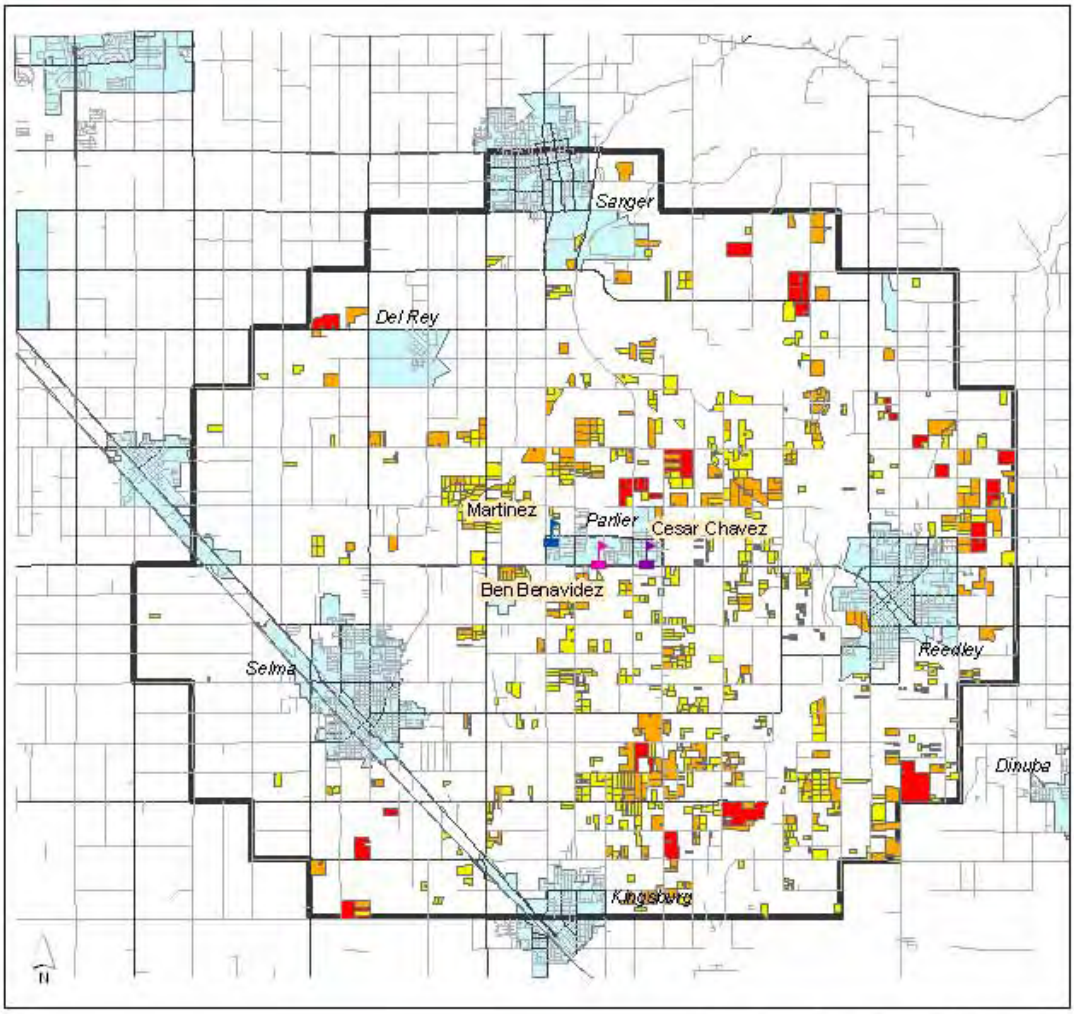
**Total Lbs AI**

150

Study Area



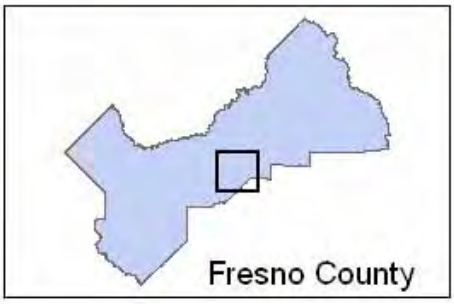
# Phosmet Applications 01/01/06 - 12/31/06



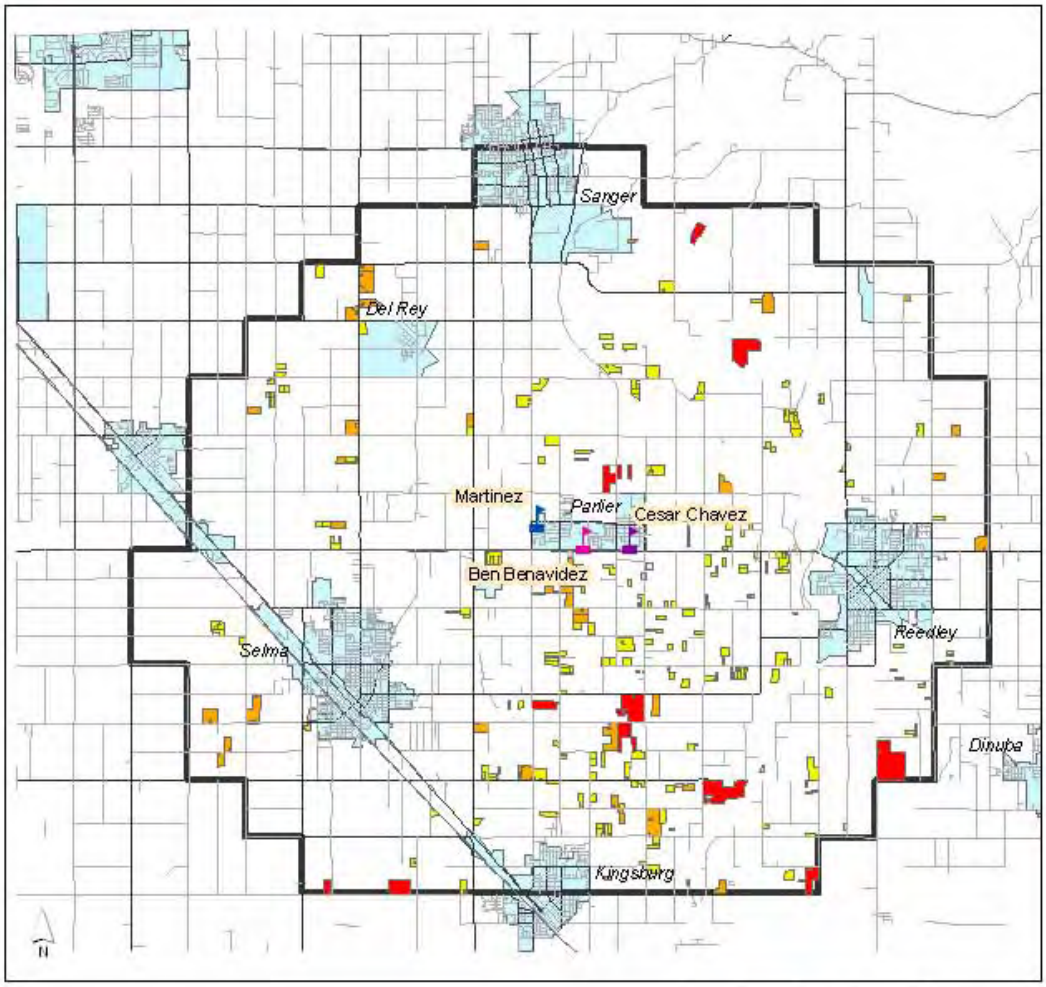

0 1 2 3 4 Miles

**Total Lbs AI**

- 1 - 43
- 44 - 140
- 141 - 426
- Study Area



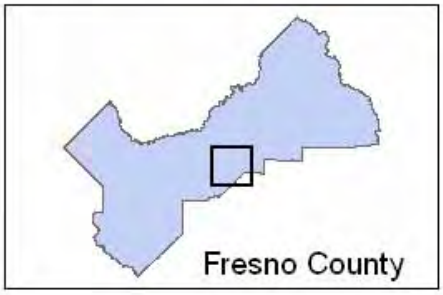
# Propargite Applications 01/01/06 - 12/31/06



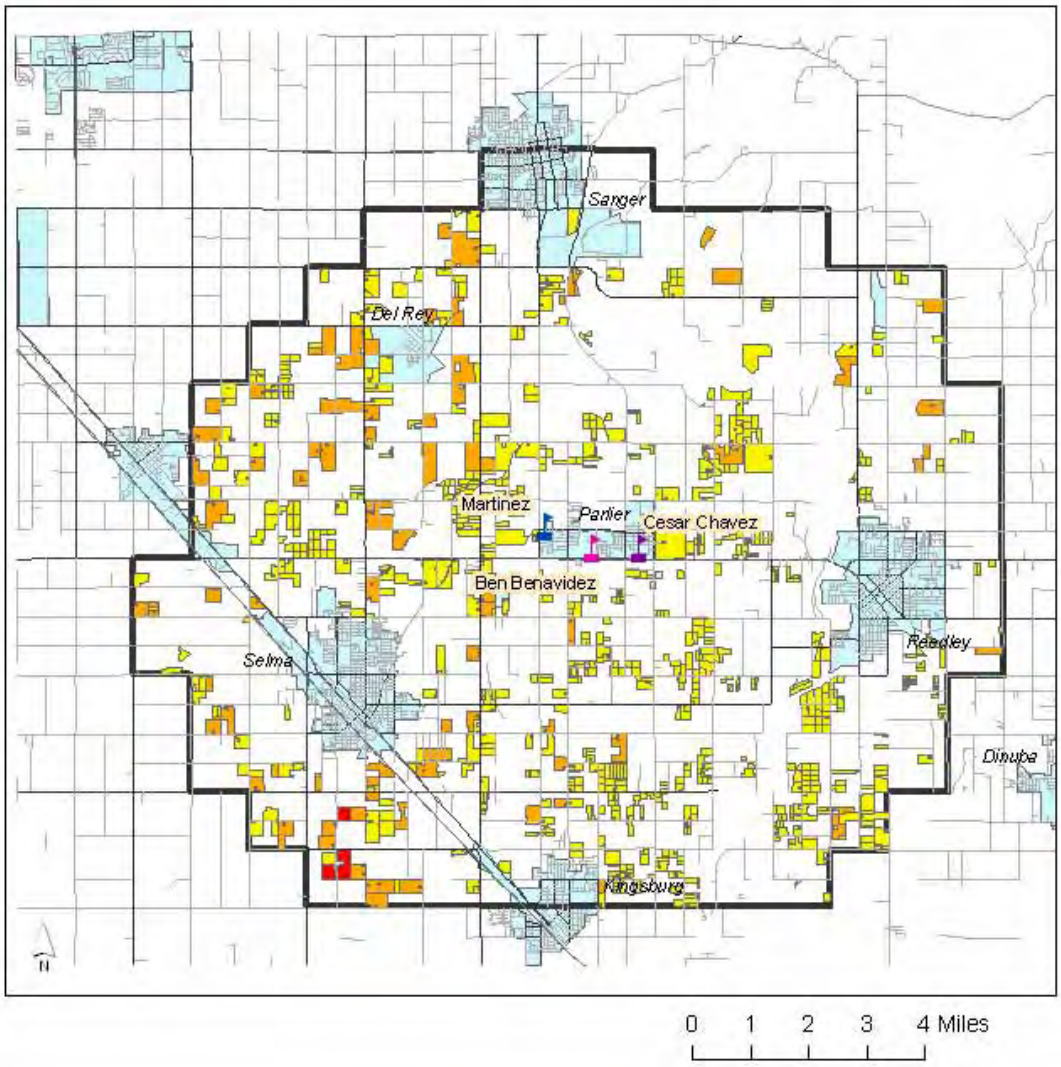

0 1 2 3 4 Miles

**Total Lbs AI**

- 1 - 32
- 33 - 88
- 96 - 207
- Study Area

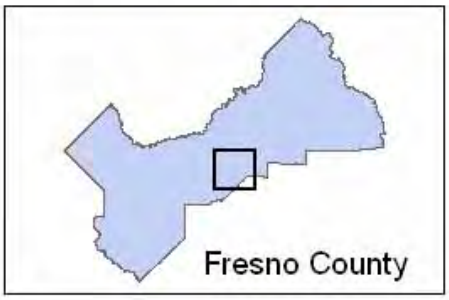


# Simazine Applications 01/01/06 - 12/31/06

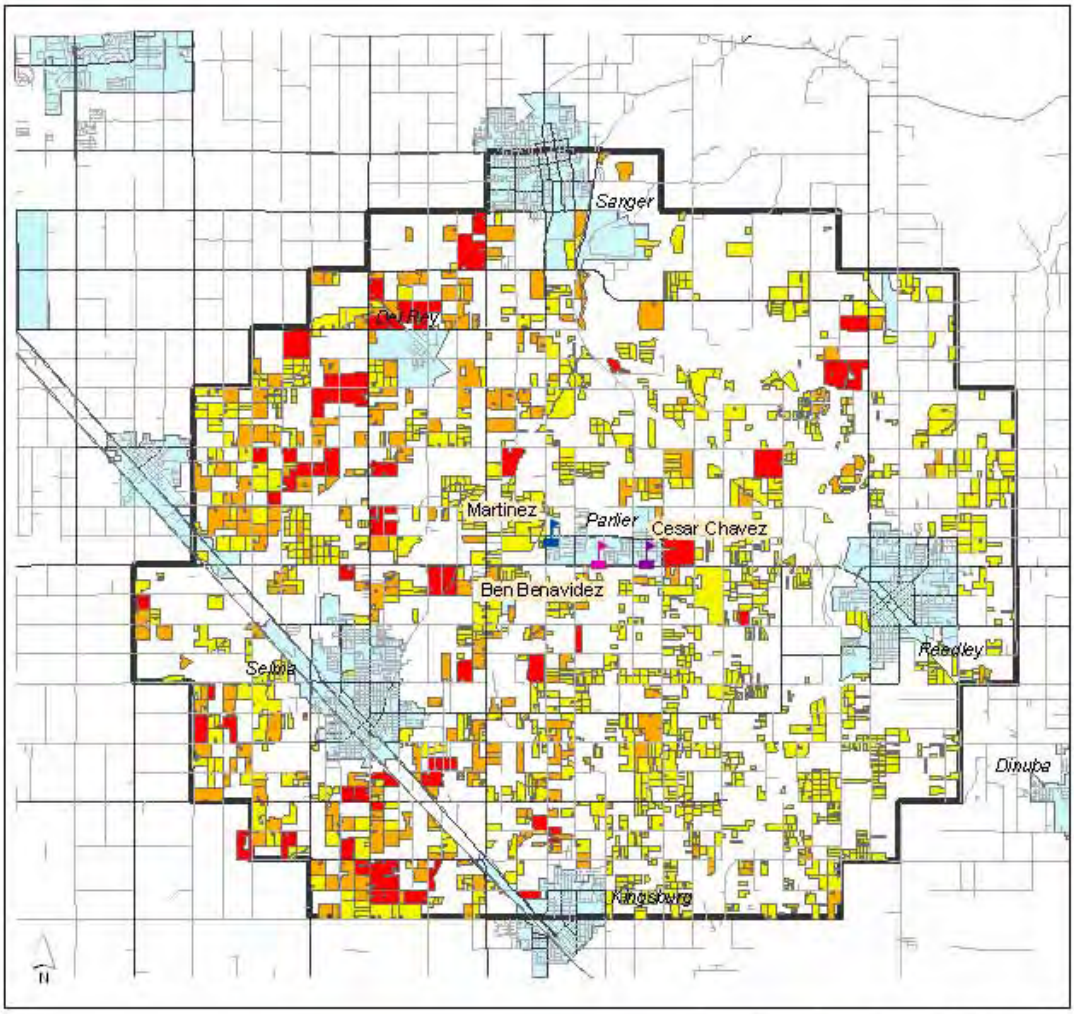



**Total Lbs AI**

- 0 - 30
- 31 - 153
- 154 - 450
- Study Area



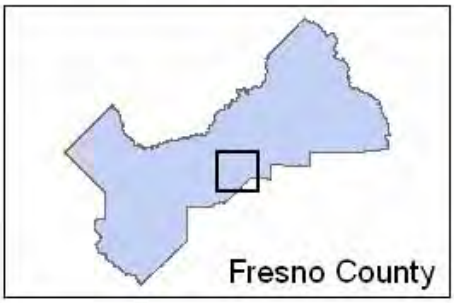
# Sulfur Applications 01/01/06 - 12/31/06



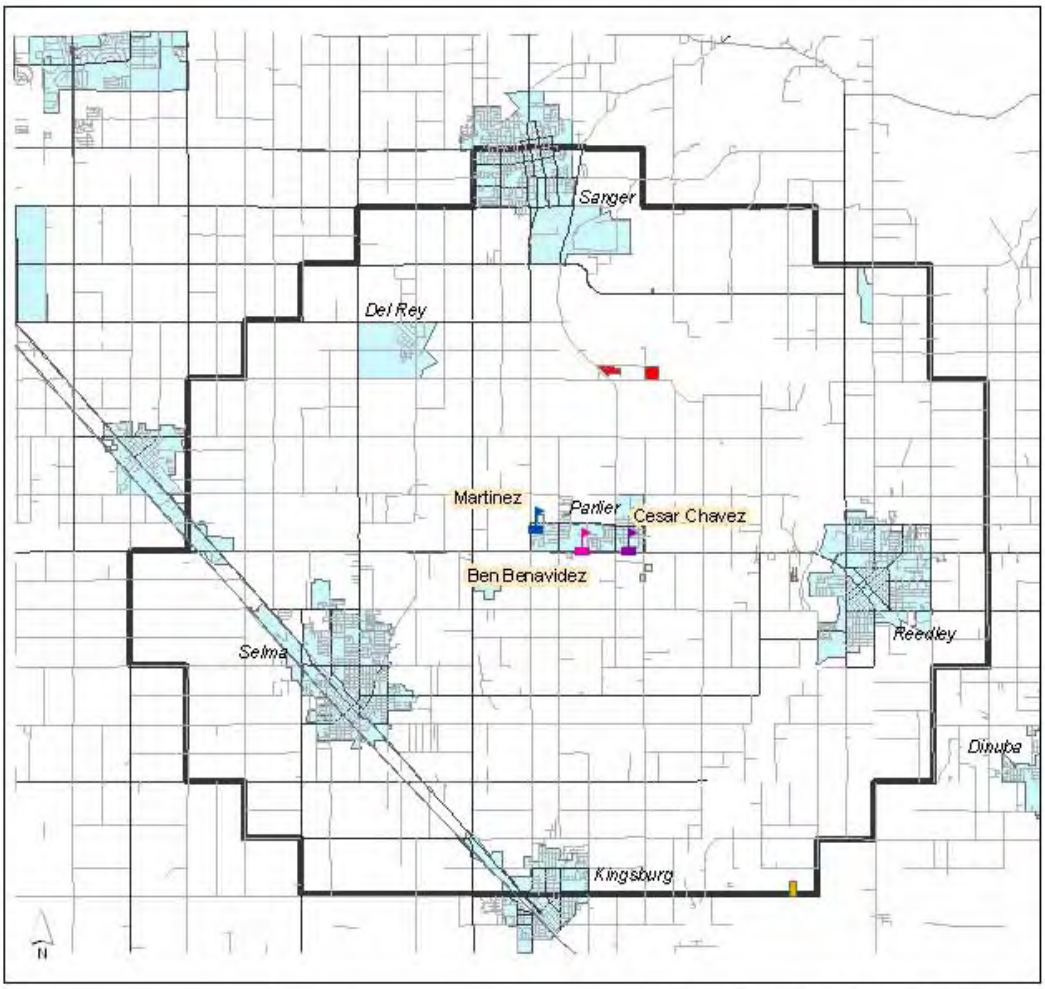

0 1 2 3 4 Miles

**Total Lbs AI**

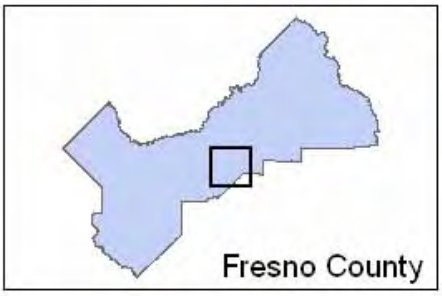
- 2 - 776
- 777 - 2790
- 2791 - 12206
- Study Area



# Trifluralin Applications 01/01/06 - 12/31/06




0 1 2 3 4 Miles

**Total Lbs AI**

- 0 - 2
- 3 - 12
- 13 - 28
- Study Area